DESIGN CRITERIA:

1. LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]:
   -- ROOF:.....30 PSF / 2.0 K

2. ROOF SNOW LOAD:
   -- GROUND SNOW LOAD (Pg):.....20 PSF
   -- FLAT ROOF SNOW LOAD (Pf):.....22 PSF
   -- SNOW EXPOSURE FACTOR (Ce):.....1.0
   -- SNOW LOAD IMPORTANCE FACTOR (I):.....1.1
   -- THERMAL FACTOR (Ct):.....1.0

3. WIND DESIGN DATA:
   -- BASIC WIND SPEED (3 SEC GUST):.....167 MPH
   -- WIND IMPORTANCE FACTOR (I):.....1.15
   -- WIND EXPOSURE:.....C
   -- BUILDING ENCLOSURE:.....PARTIALLY ENCLOSED
   -- INTERNAL PRESSURE COEFF:.....0.55

   -- COMPONENTS AND CLADDING WIND PRESSURE:
   WALL EDGES AND CORNERS:.....136 PSF
   ALL OTHER WALL CONDITIONS:.....124 PSF
   ROOF EDGES:.....156 PSF
   ROOF CORNERS:.....156 PSF
   ALL OTHER ROOF CONDITIONS:.....128 PSF

4. EARTHQUAKE DESIGN DATA:
   -- SEISMIC IMPORTANCE FACTOR (I):.....1.25
   -- BUILDING OCCUPANCY CATEGORY:.....III
   -- MAPPED SPECTRAL RESP ACCEL (Ss / S1):.....0.125 / 0.056
   -- SITE CLASS:.....D
   -- SPECTRAL RESPONSE COEFF (Sds / Sd1):.....0.133 / 0.089
   -- SEISMIC DESIGN CATEGORY:.....B
   -- SEISMIC FORCE RESISTING SYSTEM:.....R=3
   -- DESIGN BASE SHEAR:.....330K
   -- SEISMIC RESPONSE COEFF (Cs):.....3.0
   -- RESPONSE MODIFICATION FACTOR (R):.....3.0
   -- ANALYSIS PROCEDURE:.....MRS

STRUCTURAL GENERAL NOTES:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2006 EDITION". REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.

3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.

5. THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE EXPANSION.

6. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

7. COLUMNS, BEAMS, JOISTS, OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ARCHITECT BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.

9. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE ADJUSTMENTS WITH THE ARCHITECT.

10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.

11. BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED).

12. FOR DEFERRED SUBMITTALS (EXAMPLES: PREFABRICATED WOOD OR COLD FORMED STEEL JOISTS, PRECAST CONCRETE ELEMENTS, COLD FORMED FRAMING), SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL BE FURNISHED TO THE ENGINEER OF RECORD FOR REIVEW.

EARTHWORK AND FOUNDATIONS:

1. REFERENCE GEOTECHNICAL INVESTIGATION PREPARED BY RED ROCK CONSULTING, LLC DATED MARCH 25, 2013. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND FOLLOW ALL RECOMMENDATIONS WITHIN.

2. DRILLED PIER INFORMATION
   A. ALLOWABLE END BEARING CAPACITY = 58 KSF
   B. ALLOWABLE SKIN FRICTION CAPACITY = 6 KSF
   C. SOCKET INTO SANDSTONE 10'-0" MIN.

3. LATERAL SOIL PRESSURES PER GEOTECH REPORT

4. ALL PERIMETER AND EXTERIOR FOOTINGS SHALL EXTEND AT LEAST 2'-6" BELOW FINAL ADJACENT GRADE. DEEPEN FOOTINGS AS REQUIRED TO PROVIDE THIS MINIMUM BOTTOM OF FOOTING.

5. ALL WALL AND COLUMN FOOTINGS SHALL BEAR INTO NATIVE UNDISTURBED NON-ORGANIC SOILS OR INTO A CONTROLLED, COMPACTED, TESTED ENGINEERED FILL. THE CONTRACTOR SHALL PROVIDE SOILS TESTING SERVICES TO VERIFY SOIL CONDITIONS AND PROVIDE WRITTEN VERIFICATION TO THE ARCHITECT AND ENGINEER. FLOOR SLAB SUBGRADE PREPARATION SHALL BE CONSTRUCTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. NATIVE SOILS MOISTURE EVALUATIONS SHALL BE PERFORMED A FEW DAYS PRIOR TO THE START OF EARTHWORK. THE EXPOSED SUBGRADE IN THE PROPOSED BUILDING AREA SHALL BE DENSIFIED IN PLACE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/GEOTECHNICAL ENGINEER

6. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET.

7. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.

8. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A TEMPLATE

9. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

CONCRETE AND MASONRY REINFORCING STEEL:

1. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.

2. ALL MESH SHALL MEET ASTM A-185: LAP A MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.

3. REINFORCING BARS QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

4. PROVIDE AND ADDITIONAL ALLOWANCE OF 1% OF THE TOTAL REINFORCING SHOWN ON THE FINAL DRAWINGS TO BE FABRICATED AND ERECTED DURING THE PROGRESS OF THE WORK AT THE DIRECTION OF THE STRUCTURAL ENGINEER. FOR THE ADDITIONAL REINFORCING ALLOWANCE, INCLUDE BOTH THE COST OF THE REINFORCING AND THE LABOR TO PLACE IT.

5. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE ¾" CLEAR FOR SLABS, 2" CLEAR FOR FORMED SURFACES AND 3" CLEAR FOR FOOTINGS (TYPICAL UNLESS NOTED).

6. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED.

7. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED FIRM AND PERSON. PLACE AND SUPPORT REINFORCEMENT WITH ACCESSORIES: MAXIMUM SPACING - 48" CENTERS (PLASTIC-TIPPED LEGS FOR EXPOSED SURFACES). USE 3" SBP SUPPORTS AT ALL FOOTINGS.

CAST IN PLACE CONCRETE:

1. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:

   a. FOOTING, WALL, AND GRADEBEAM CONCRETE.....4000 PSI
   b. SLAB ON GRADE, BEAM, AND STRUC SLAB ABOVE GRADE...4000 PSI
   c. COLUMN CONCRETE .....4000 PSI

2. ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.50, WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A.C.I.. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST A.C.I. 301 STANDARDS PUBLICATION.

3. EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE 6% (PLUS/MINUS 1%) ENTRAINED AIR.

4. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).

5. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.

6. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE

7. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR

8. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.

9. CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 60'-0". INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT CHANGES IN WALL THICKNESS

10. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO ¼" AMPLITUDE.

11. SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4" OF GRANULAR FILL. REINF SLAB WITH 6 X 6-W2.9xW2.9 W.W.F. IN UPPER 1/3 OF SLAB THICKNESS. SUPPLY WWF IN SHEETS. AT INTERIOR SLABS, AN 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE

12. SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 20%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYP DETAIL RC-001A.

13. REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED 53 BAR DIAMETERS (2' -6" MIN.) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.

14. MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #5 AT 10" CENTERS EACH WAY, EACH FACE

15. MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER (TYPICAL UNLESS NOTED): 2 - #5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT CORNERS

16. PROVIDE SLEEVES AT ALL SLAB, BEAM, AND COLUMN PENETRATIONS.

MASONRY

1. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90, USE TYPE "S" MORTAR, AND HAVE A MINIMUM COMPRESSIVE STRENGTH (F'm) OF 2000 PSI UNLESS NOTED OTHERWISE.

2. USE LOW-LIFT GROUTING PROCEDURES AND PROVIDE GROUT CONFORMING TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2800 PSI AT 28 DAYS.

3. PROVIDE STANDARD (9 GAGE) LADDER TYPE HORIZONTAL REINF AT ALTERNATING COURSES (16" OC). PROVIDE PREFAB LADDER CORNERS AND TEES. LAP LADDER REINF 6" MIN. THIS NOTE TYPICAL AT ALL MASONRY WALLS UNLESS NOTED OTHERWISE

4. VERTICAL REINFORCEMENT AT JAMBS OF OPENINGS SHALL EXTEND THE FULL HEIGHT OF THE WALL UNLESS NOTED OTHERWISE.

5. VERTICAL CONTROL JOINTS SHALL BE 3/8" WIDE OR AS SPECIFIED ON THE DRAWINGS AND FULL HEIGHT OF THE WALL AT LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS. JOINTS SHALL BE SPACED AT A MAXIMUM OF 20'-0". ALL HORIZONTAL JOINT REINF SHALL BE DISCONTINUOUS AT CONTROL JOINTS.

6. FOR MASONRY VENEERS, PROVIDE "HOOK AND EYE" TIES AT 24" OC HORIZONTALLY AND 16" OC VERTICALLY. ATTACH APPROPRIATELY TO SUBSTRATE WALL.

7. SHORE ALL MASONRY BOND BEAM LINTELS UNTIL GROUT HAS REACHED THE MINIMUM 28 DAY STRENGTH. REFERENCE TYPICAL DETAIL MS-003 FOR ADDITIONAL NFORMATION.

8. PROVIDE 8" MINIMUM BEARING FOR ALL STEEL LINTELS BEARING ON MASONRY (UNO)

9. AT BASE OF WALL, PROVIDE DOWELS FROM CONCRETE THAT MATCH THE SIZE AND SPACING OF THE MASONRY WALL VERTICALS.

10. VERTICAL REINFORCEMENT SHALL BE LAPPED 24" FOR #4 BARS, 30" FOR #5 BARS, 43" FOR #6 BARS, OR WITH AN APPROVED MECHANICAL COUPLER.

11. ALL REINFORCING SHALL BE PROPERLY POSITIONED WITH CENTERING AND CAGING DEVICES WITH A MINIMUM GROUT COVERAGE OF ¾"

12. GROUT SOLID ALL BLOCK CORES CONTAINING VERTICAL BARS, HORIZONTAL BOND BEAMS, HEADED STUDS, AND OR ANCHORS. FOR MASONRY IN CONTACT WITH EARTH, GROUT SOLID ALL MASONRY AND AIR GAP CAVITIES.

13. ALL ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY HILTI, INC. AND INSTALLED PER HILTI SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICBO EVALUATION REPORTS.

14. MASONRY WALLS SHALL BE REINFORCED WITH NOT LESS THAN #5 VERTICALS AT 24" OC AS WELL AS 2-#5 VERTICAL AT CORNERS, EACH SIDE OF OPENINGS, AND EACH SIDE OF CONTROL JOINTS. TERMINATE VERTICALS WITH STD 90 DEGREE HOOK INTO TOP BOND BEAM. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE.

LIGHT GAGE STRUCTURAL STEEL FRAMING NOTES:

1. LIGHT GAGE FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES: FY = 33 KSI FOR 18 GA AND LIGHTER MEMBERS, FY = 50 KSI FOR ALL DIAGONAL STRAP BRACING AND FOR 16 GA AND HEAVIER MEMBERS.

2. ALL DESIGN, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS." LATERAL LOAD DEFLECTION SHALL BE LIMITED TO 1/600 OF THE SPAN AT LOCATIONS LATERALLY SUPPORTING MASONRY AND 1/360 ELSEWHERE.

3. ALL EXTERIOR STUDS OR LOAD BEARING INTERIOR STUDS SHALL BE PER THE FOLLOWING (UNO):
   A. WHERE STUDS BACK UP FULL HT BRICK, 600S162-43 @ 24" OC (18 GAGE)
   B. OTHER CONDITIONS, 600S162-33 @ 24" OC (20 GAGE)

4. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE TO PROPERLY TRANSFER IMPOSED LOADS. MINIMUM GAGE OF TRACKS SHALL BE 43 mils (18 GAGE).

5. PROVIDE WALL STUD BRIDGING FOR EACH STUD AS RECOMMENDED BY THE MANUFACTURER. MAXIMUM SPACING SHALL BE 4'-0" CENTERS.

6. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBER. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

7. DO NOT NOTCH, DRILL OR CUT ANY HOLES IN LOAD BEARING STUDS FOR ELECTRICAL OR MECHANICAL EQUIPMENT. USE EXISTING FABRICATED HOLES.

8. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STEEL FRAMING WORK. TOUCH UP ALL WELDS WITH GALVANIZE COATING.

9. SCREWS IN LIGHT GAGE FRAMING SHALL BE INSTALLED WITH MINIUM EDGE DISTANCES OF 1/2" AND MINIMUM SPACING BETWEEN SCREWS OF 3/4".

10. WHERE BACK-TO-BACK STUD COLUMNS ARE USED, ATTACH WITH #10 SCREWS @ 12" OC MAX, UNO.

11. FOR TOP OF EXTERIOR WALL VERTICAL DEFLECTION SYSTEMS, PROVIDE ONE OF THE FOLLOWING:
   A. DOUBLE TRACK ASSEMBLY WITH 68 MIL (14 GA) OUTSIDE TRACK
   B. VERTICAL SLIP CONN (DESIGN FOR 500 LB) AT EA STUD.

12. FOR TOP OF INTERIOR WALL VERTICAL DEFLECTION SYSTEMS, PROVIDE ONE OF THE FOLLOWING:
   A. DOUBLE TRACK ASSEMBLY WITH 43 MIL (18 GA) OUTSIDE TRACK
   B. VERTICAL SLIP CONN (DESIGN FOR 300 LB) AT EA STUD.

13. FOR COLD FORMED JOISTS, PROVIDE JOIST BRIDGING PER MANUF RECOMMENDATIONS @ 8'-0" OC MAX.

14. ALL STUD WALL TRACKS TO BE FASTENED TO SLABS WITH 0.145" DIA (MIN) PAF @ 16" OC MAX (1" EMBED).

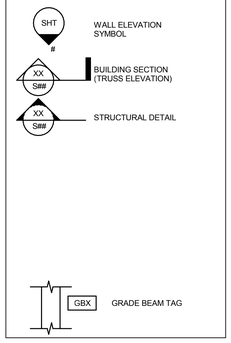
NON-LOAD BEARING LIGHT GAGE STEEL FRAMING NOTES

1. METAL STUD MANUFACTURERS GENERALLY RECOMMEND HORIZONTAL BRIDGING OR STRAPPING TO BE PROPERLY INSTALLED AT 6 FT TO 6 FT OC, MECHANICALLY ATTACHED TO EACH STUD TO PREVENT DAMAGE DURING CONSTRUCTION, EVEN IF ONE SIDE OR BOTH SIDES ARE TO BE SHEATHED WITH RIGID FACING MATERIALS. HOWEVER, AT THE CONTRACTORS RISK AND OPTION, THE RECOMMENDED HORIZONTAL BRIDGING OR STRAPPING MAY BE OMITTED

2. WHEN RIGID FACING MATERIALS ARE NOT ATTACHED TO EITHER SIDE, SUCH AS ABOVE CEILINGS, HORIZONTAL BRIDGING OR STRAPPING AT EACH FACE SHALL BE INSTALLED

3. WHERE THE TOP OF THE STUD WALLS TERMINATE AGAINST PRIMARY STRUCTURAL FRAMING, A "DEFLECTION TRACK" SHOULD BE USED TO ALLOW FOR VERTICAL MOVEMENT. ONE ROW OF THE RECOMMENDED HORIZONTAL BRIDGING SHALL BE PROPERLY INSTALLED BY MECHANICAL ATTACHMENTS TO EACH STUD AS CLOSE TO THE TOP AS POSSIBLE. ANY TEMPORARY SCREWS FROM THE TOP DEFLECTION TRACK TO THE METAL STUDS SHALL BE REMOVED AS SOON AS POSSIBLE TO ALLOW VERTICAL DEFLECTION OF THE PRIMARY FRAMING AND TO PREVENT DAMAGE TO THE STUD WALL. METAL STUDS SHOULD NEVER BE ATTACHED DIRECTLY TO HORIZONTAL STRUCTURAL FRAMING SYSTEMS WITHOUT A DEFLECTION TRACK OR VERTICALLY SLOTTED

ANNOTATION LEGEND



STRUC ABREVIATIONS	
+/-	PLUS OR MINUS
A.R.	ANCHOR ROD
ADDNL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUC STL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT OR ARCHITECTURAL
B/	BOTTOM OF
B/W	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
CF	COLD FORMED
CHKD	CHECKED
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
db	DIA OF REINF BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DWL	DOWEL
EA	EACH
E.J	EXPANSION JOINT
EL	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK

STRUC ABREVIATIONS	
EOS	EDGE OF SLAB
EQ	EQUAL
EQP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
F.V.	FIELD VERIFY
FLG	FLANGE
FLR	FLOOR
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
k	KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPLICE LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTE	TENSION EMBEDMENT LENGTH
LTS	TENSION LAP SPLICE LENGTH
LW	LIGHTWEIGHT
MAS	MASONRY
MATL	MATERIAL
MNFR	MANUFACTURER
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NS	NON-SHRINK
NTS	NOT TO SCALE
O.F.	OUTSIDE FACE

STRUC ABREVIATIONS	
OC	ON CENTER
OPP	OPPOSITE
OVS	OVERSIZED
P/C	PRECAST
PAF	POWDER ACTUATED FASTENER
PEN	PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PMB	PRE-ENGINEERED METAL BUILDING
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R.F.	RIGID FRAME
RC	REINFORCED CONCRETE
RE: OR REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
SC	SLIP CRITICAL
SDS	SELF DRILLING SCREW
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIR	STIRRUPS
STL	STEEL
SW	SHEAR WALL
SYM	SYMMETRIC
T&B	TOP AND BOTTOM
T/	TOP OF
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WWF	WELDED WIRE FABRIC

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
Revisions:	

VA FORM 08-6231

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APPROVED: President A.F.G.E 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director
APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: GENERAL STRUCTURAL NOTES & ABBREVIATIONS

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

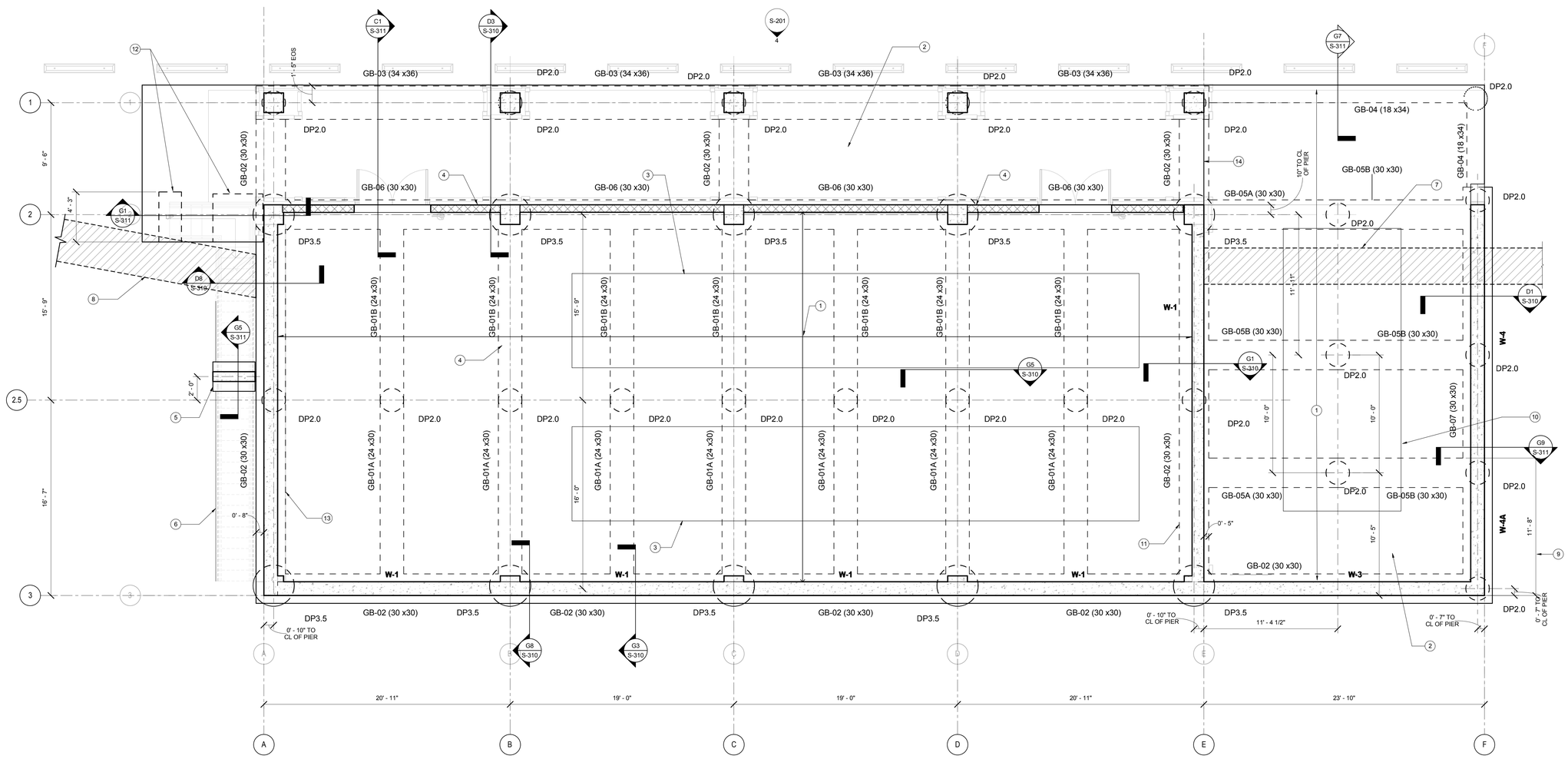
Scale:

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		Designer	PWS	

BUILDING NUMBER | AUTOCAD FILE NAME: | Location

DRAWING NO: S-001

Department of Veterans Affairs



PLAN NORTH

1 S-101

LOWER LEVEL / FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION SHEET NOTES

1. REFERENCE SHEET S-001 FOR STRUCTURAL GENERAL NOTES, A SYMBOLS LEGEND, AND AN ABBREVIATIONS LEGEND. REVIEW NOTES & DETAILS FOR APPLICABILITY.
2. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
3. DRILLED PIERS ARE DENOTED "DPXX". REFERENCE DETAIL C2/S-601 FOR DRILLED PIER SCHEDULE AND DETAILS. TYPICAL TOP OF PIER = 96'-10", EXCEPT ALONG GRID 1 WHERE TOP OF PIER = 96'-4".
4. CONCRETE WALLS ARE DENOTED "W-XX". REFER TO SCHEDULE ON THIS SHEET FOR REINFORCING.
5. ALL CMU WALLS SHALL BE REINFORCED AND DETAILED PER SHEET S-303.
6. COORINDATE ALL FLOOR AND WALL PENETRATIONS WITH REINFORCING. PROVIDE ADDITIONAL REINFORCING PER TYP DTLS
7. ALL EXTERIOR FOOTING SHALL BE 2'-6" MIN. BELOW GRADE, DEEPEN FOOTINGS AS REQUIRED.
8. GRADE BEAMS ARE DENOTED "GB-XXX (WIDTH X DEPTH)". REFERENCE S601 FOR CONCRETE BEAM AND GRADE BEAM SCHEDULE AND DETAILS.
9. REFER TO SHEET S-601 FOR CONCRETE COLUMN SCHEDULE. COLUMNS ARE IDENTIFIED IN THE SCHEDULE BY GRID INTERSECTIONS.

FOUNDATION PLAN NOTES:

1. 6" SLAB ON GRADE. REINF WITH #5 @ 12" OC BOT BARS. PROVIDE #5 @ 12" OC TOP BARS X 6'-0" LONG OVER GIRDERS. PROVIDE #4 @ 12" OC BOT FOR TEMP REINF.
2. 6" EXTERIOR SLAB ON GRADE. REINF WITH 6x6-W2.9xw2.9
3. FUEL STORAGE TANKS.
4. NEW 8" CMU PARTITION WALL. REINF PER TYP DETAILS
5. CONCRETE FOOTING AND STEM WALL TO SUPPORT NEW STEEL STAIR. SEE SECTION FOR REINFORCING.
6. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN.
7. ELECTRICAL CONDUIT DUCT BANK BELOW GRADE BEAM. SEE ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.
8. ELECTRICAL CONDUIT DUCT BANK BELOW GRADE BEAM. SEE ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.
9. RETAINING WALL REINF SPACING IS TIGHTER IN THIS ZONE. REFER TO SCHEDULE.
10. LOAD BANK PER ELECTRICAL. COORDINATE ANY CURB REQUIREMENTS WITH ELECTRICAL DWGS.
11. GRADE BEAM IS CENTERED OVER PIERS
12. 1'-0" THICK FTG FOR STAIR LANDINGS. SEE DETAIL G1/S311 FOR REINFORCING.
13. GRADE BEAM IS CENTERED UNDER WALL.
14. TRANSITION BETWEEN SLAB TYPES (NOTE 1 AND NOTE 2)

WALL REINF SCHEDULE

MARK	REINFORCING		
	HORIZ EF	VERT O.F.	VERT I.F.
W1	#4@12" EF	#7 @ 18"	#7 @ 9"
W2	#4@12" EF	#5 @ 12"	#5 @ 12"
W3	#7@12" EF	#5 @ 12"	#7 @ 12"
W4	#4@12" EF	#7 @ 12"	#5 @12"
W4A	#4@12" EF	#7 @ 5"	#7 @ 10"

REVISIONS	DATE
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99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
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VA FORM 08-6231

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APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: FOUNDATION PLAN

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

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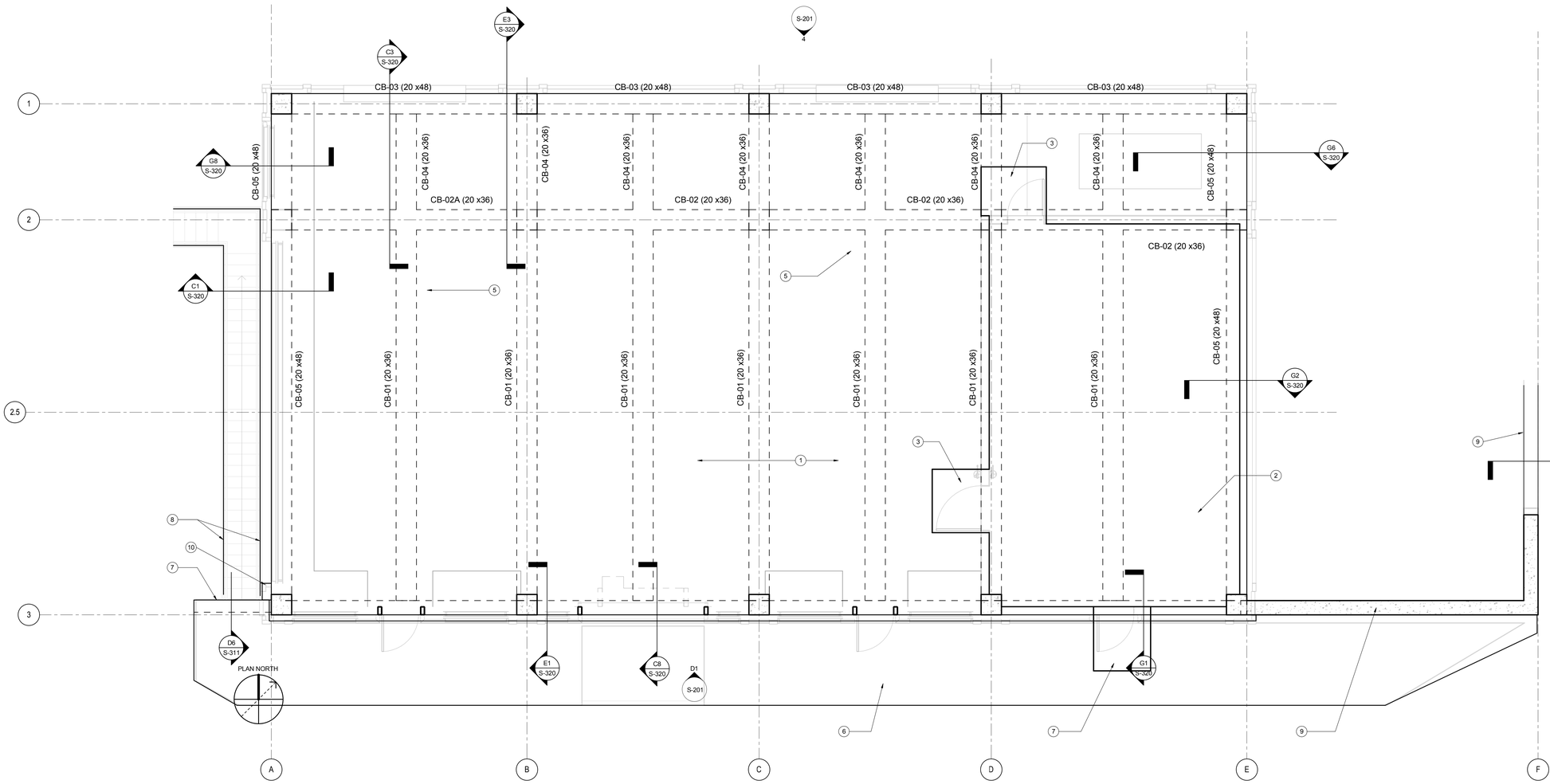
BUILDING NUMBER | AUTOCAD FILE NAME: | Location

DRAWING NO: S-101

Department of Veterans Affairs



2ND FLOOR SHEET NOTES

1. REFERENCE SHEET S-001 FOR STRUCTURAL GENERAL NOTES, A SYMBOLS LEGEND, AND AN ABBREVIATIONS LEGEND. REVIEW NOTES & DETAILS FOR APPLICABILITY.
2. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
3. ALL CMU WALLS SHALL BE REINFORCED AND DETAILED PER SHEET S-303.
4. COORINDATE ALL FLOOR AND WALL PENETRATIONS WITH REINFORCING. PROVIDE ADDITIONAL REINFORCING PER TYP DTLS
5. CONCRETE BEAMS ARE DENOTED "CB-XXX (WIDTH X DEPTH)". REFERENCE S601 FOR CONCRETE BEAM AND GRADE BEAM SCHEDULE AND DETAILS.
6. REFER TO SHEET S-601 FOR CONCRETE COLUMN SCHEDULE. COLUMNS ARE IDENTIFIED IN THE SCHEDULE BY GRID INTERSECTIONS.

2ND FLOOR PLAN NOTES:

1. 8" CONCRETE SLAB WITH #5 @ 12" OC TOP AND BOT BARS. PROVIDE #4 @ 18" OC TOP AND BOT FOR TEMP REINF.
2. 4" TOPPING SLAB. COORDINATE EXTENTS WITH ARCHITECTURE. REINF WITH 6x6-W2.1XW2.1. DRILL AND EPOXY #4 HOOKED DWLS AT PERIMETER (2" EMBED) @ 18" OC INTO SLAB BELOW.
3. 4" TOPPING SLAB STOOPS. SEE NOTE 2 FOR ADDITIONAL INFO.
4. 4" EXTERIOR TOPPING SLAB STOOP. COORDINATE EXTENTS WITH ARCHITECTURE. REINF WITH 6x6-W2.1XW2.1. DRILL AND EPOXY #4 HOOKED DWLS AT PERIMETER (2" EMBED) @ 18" OC INTO SLAB BELOW.
5. NEW GENERATORS. COORDINATE BASE ATTACHMENT WITH SUPPLIER AND MEP DWGS.
6. EXTERIOR SLAB ON GRADE PER CIVIL
7. RETAINING WALL AT STAIR CONNECTION. REINF PER DETAIL D6/S311.
8. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN.
9. COORDINATE TOP OF NEW RETAINING WALL WITH ARCHITECTURE AND CIVIL
10. CONCRETE PILASTER UNDER CORNER OF STONE AND BRICK COLUMN WRAP. PROIVDE (1) #5 VERT AND #4 HORIZ @ 12" OC. HORIZ BARS SHALL BE EMBEDDED INTO RETAINING WALL AND BUILDING WALL (DRILL AND EXPOXY 4" MIN EMBED). TOP OF PILASTER TO MATCH TOP OF 2ND FLOOR SLAB. BOTTOM OF PILASTER TO MATCH BOTTOM OF STAIR RETAINING WALL.

5 S-102 — 2ND FLOOR FRAMING PLAN

1/4" = 1'-0"

REVISIONS	DATE
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APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: SECOND FLOOR FRAMING PLAN

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

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BUILDING NUMBER | AUTOCAD FILE NAME: | Location

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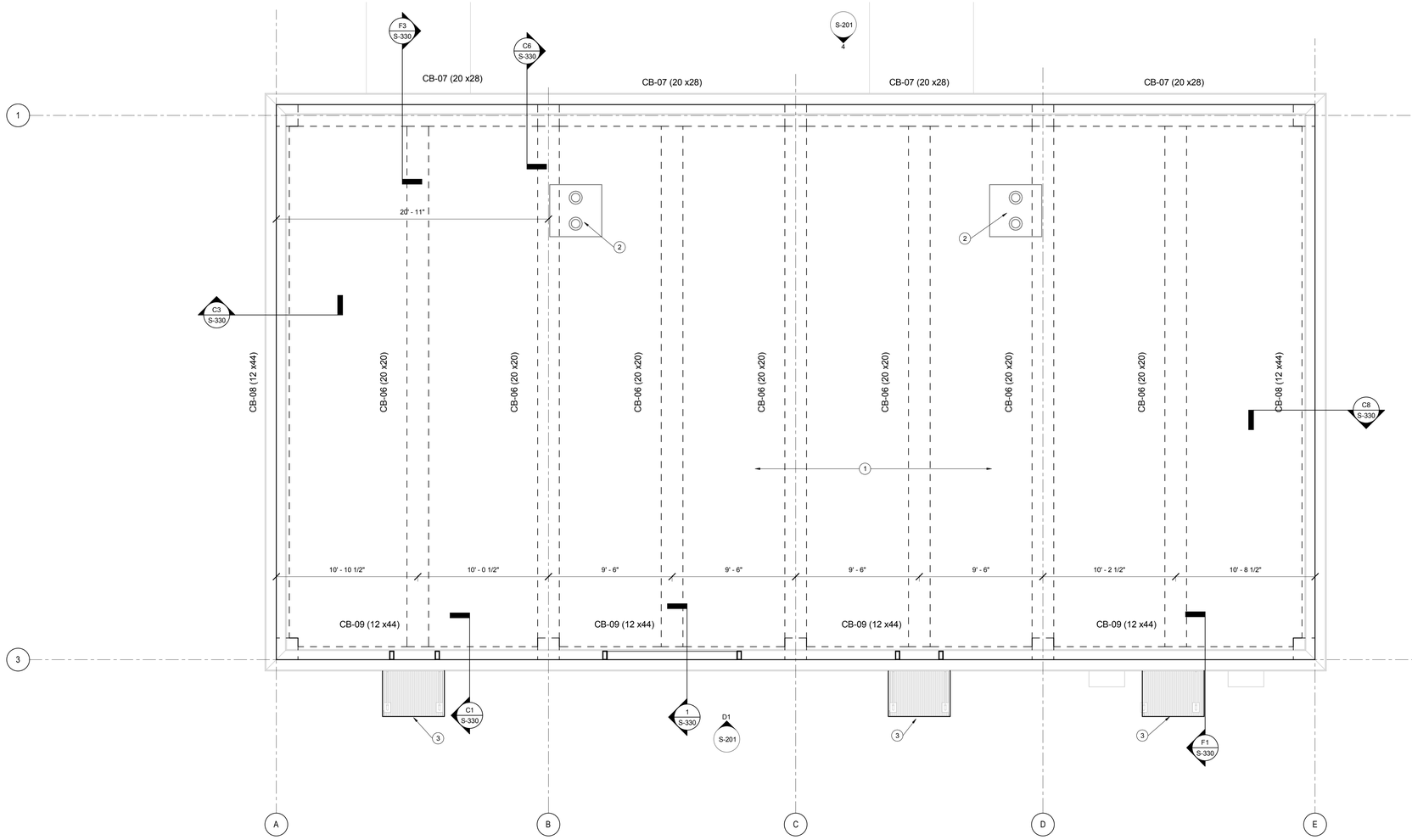
Scale

DRAWING NO: S-102

Department of Veterans Affairs



PLAN NORTH

ROOF SHEET NOTES

1. REFERENCE SHEET S-001 FOR STRUCTURAL GENERAL NOTES, A SYMBOLS LEGEND, AND AN ABBREVIATIONS LEGEND. REVIEW NOTES & DETAILS FOR APPLICABILITY.
2. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
3. ALL CMU WALLS SHALL BE REINFORCED AND DETAILED PER SHEET S-303.
4. COORINDATE ALL FLOOR AND WALL PENETRATIONS WITH REINFORCING. PROVIDE ADDITIONAL REINFORCING PER TYP DTLS
5. CONCRETE BEAMS ARE DENOTED "CB-XXX (WIDTH X DEPTH)". REFERENCE S601 FOR CONCRETE BEAM AND GRADE BEAM SCHEDULE AND DETAILS.
6. REFER TO SHEET S-601 FOR CONCRETE COLUMN SCHEDULE. COLUMNS ARE IDENTIFIED IN THE SCHEDULE BY GRID INTERSECTIONS.

ROOF PLAN NOTES:

1. 6" CONCRETE SLAB. REINF W/ #4 @ 12" OC TOP AND BOT. PROVIDE #4 @ 18" OC TOP AND BOT TEMPERATURE REINF.
2. ROOF DRAINS. COORD WITH ARCHITECTURAL DWGS. REINF AROUND OPENINGS PER TYPICAL DETAILS
3. PREFABRICTED CANOPY. COORDINATE ATTACHMENT TO WALLS WITH SUPPLIER.

1 S-103 ROOF FRAMING PLAN

1/4" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
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APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

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Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

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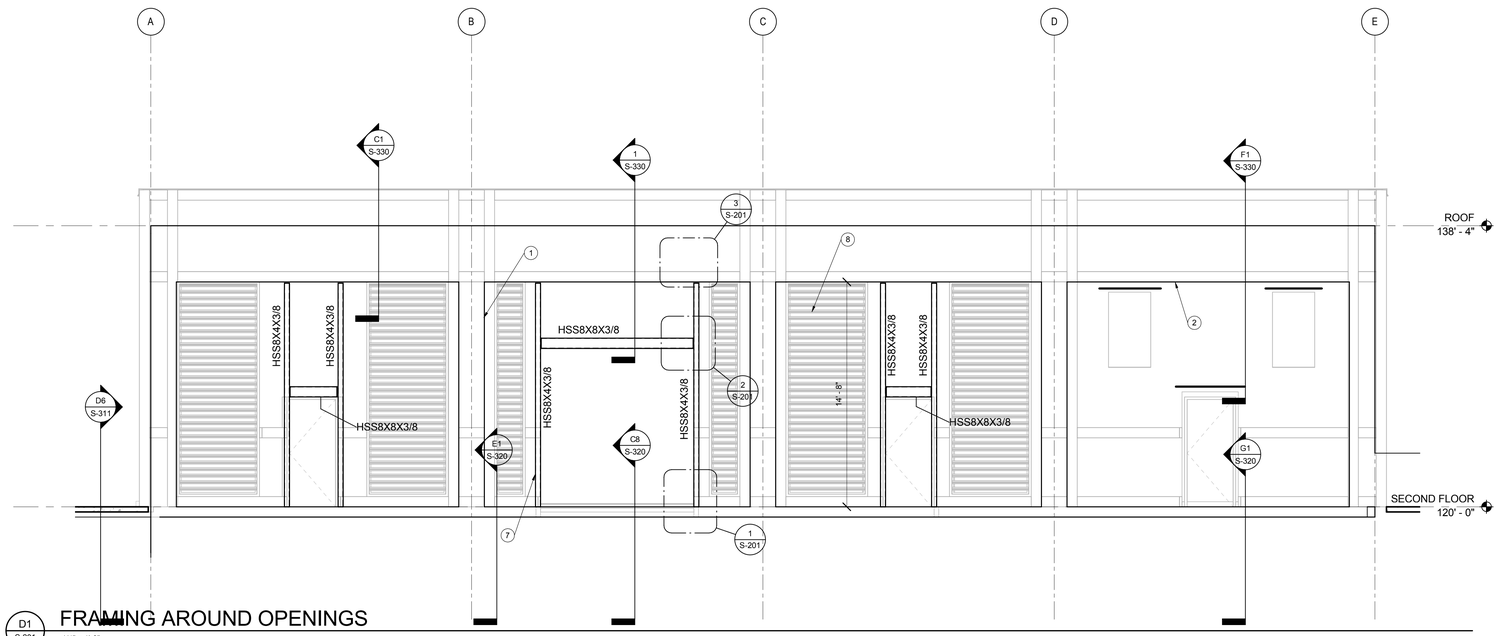
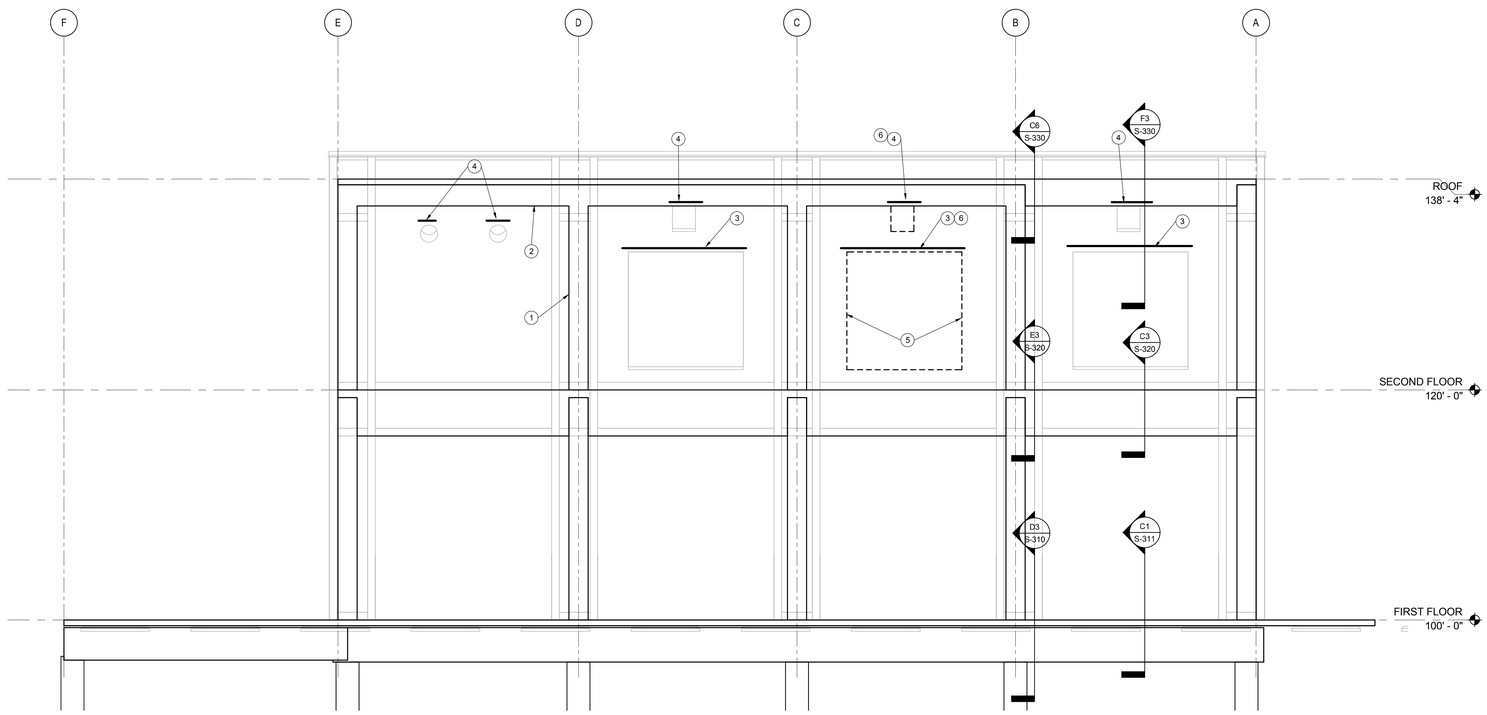
BUILDING NUMBER | AUTOCAD FILE NAME: | Location

DRAWING NO: S-103

Department of Veterans Affairs



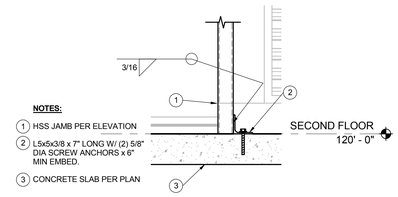
D1 S-201 — FRAMING AROUND OPENINGS
1/4" = 1'-0"



4 S-201 — FRAMING AROUND OPENINGS
3/16" = 1'-0"

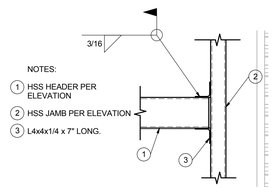
ELEVATION NOTES:

1. PROVIDE DOVETAIL EMBEDS FOR ANCHORAGE OF CMU TO CONCRETE COLUMNS
2. BRACE TOP OF CMU WALLS USING DETAIL G7/S303.
3. LOOSE LINTEL AND HEADER OVER MEP OPENING. REFER TO SHEET S-303 FOR DETAILS.
4. LOOSE LINTEL OVER OPENING PER C5/S-303
5. CUT VERTICAL CMU AND BRICK AT FUTURE GENERATOR LOCATION.
6. OPENING WILL CONSTRUCTED IN THE FUTURE. ALL LINTELS AND BOND BEAMS SHALL BE INSTALLED TO FACILIATE REMOVAL OF BRICK AND CMU FOR THE OPENINGS.
7. ATTACH TIE ANCHORS TO HSS JAMB TUBES AT 16" OC MAX.
8. LOUVERS. COORD OPENING SIZES AND ANCHORAGE REQUIREMENTS WITH SUPPLIER



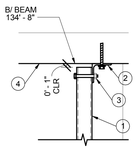
NOTES:
1. HSS JAMB PER ELEVATION
2. L5x5x3/8 x 7" LONG W/ (2) 5/8" DIA SCREW ANCHORS x 6" MIN EMBED.
3. CONCRETE SLAB PER PLAN

1 S-201 — FRAMING DETAIL
3/4" = 1'-0"



NOTES:
1. HSS HEADER PER ELEVATION
2. HSS JAMB PER ELEVATION
3. L4x4x1/4 x 7" LONG.

2 S-201 — FRAMING DETAIL 2
3/4" = 1'-0"



3 S-201 — FRAMING DETAIL 3
3/4" = 1'-0"

REVISIONS	DATE
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APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: FRAMING ELEVATIONS

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
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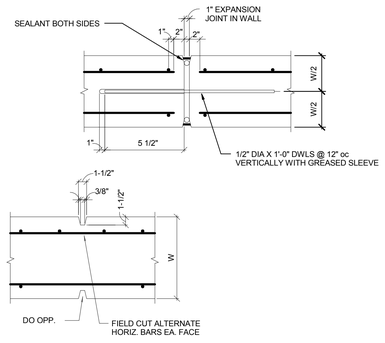
Scale:
DRAWING NO.: S-201

Department of Veterans Affairs



C1 S-301 **RC-002 CONC WALL JOINTS**

1/2" = 1'-0"

DEVELOPMENT AND LAP SPLICE SCHEDULE

	F'c = 3000 psi							F'c = 4000 psi						
	EMBEDMENT			LAP SPLICE				EMBEDMENT			LAP SPLICE			
	COMPR	TENSION (LTE)		COMPR	TENSION (LTS)		HOOK	COMPR	TENSION (LTE)		COMPR	TENSION (LTS)		HOOK
BAR	(LCE)	TOP	OTHER	(LCS)	TOP	OTHER	(LDH)	(LCE)	TOP	OTHER	(LCS)	TOP	OTHER	(LDH)
#3	8	21	16	12	28	21	6	8	18	14	12	24	18	6
#4	11	28	22	15	37	28	8	9	25	19	15	32	25	7
#5	14	36	27	19	46	36	10	12	31	24	19	40	31	8
#6	16	43	33	23	56	43	12	14	37	28	23	48	37	10
#7	19	62	48	26	81	62	13	17	54	42	26	70	54	12
#8	22	71	55	30	93	71	15	19	62	47	30	80	62	13
#9	25	80	62	34	105	80	17	21	70	54	34	91	70	15
#10	28	90	70	38	118	90	19	24	78	60	38	102	78	17
#11	31	100	77	42	131	100	22	27	87	67	42	113	87	19

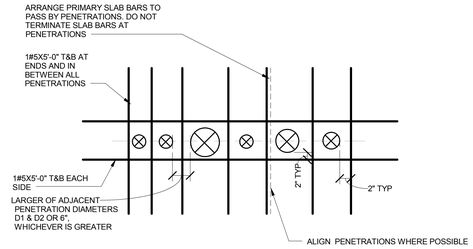
NOTES (PERTAINING TO TABLE):
1. TOP BARS ARE HORIZONTAL BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.
2. ALL BARS THAT ARE NOT "TOP BARS" ARE "OTHER" BARS
3. ABBREVIATIONS:
   - LCE - COMPRESSION EMBEDMENT LENGTH
   - LTE - TENSION EMBEDMENT LENGTH
   - LCS - COMPRESSION LAP SPLICE LENGTH
   - LTS - TENSION LAP SPLICE LENGTH
   - LDH - HOOKED BAR TENSION EMBEDMENT LENGTH

NOTES (GENERAL):
1. STAGGER ALL SPLICES 12 db MIN, BUT NOT LESS THAN 12"
2. ALL DIMENSIONS INDICATED IN TABLE ARE IN INCHES
3. BARS GREATER THAN #11 SHALL BE MECHANICALLY SPLICED
4. ALL SPLICES SHALL BE WIRED IN CONTACT STACKED VERTICAL.

MULTIPLIERS:
ALL EMBEDMENT AND LAP SPLICE LENGTHS SHALL BE INCREASED AS REQD BY THE MULIPLIERS BELOW. APPLY MULTIPLE MULTIPLIERS IF APPLICABLE.
1.3 – IF CONC CONTAINS LIGHT WEIGHT AGGREGATES
1.3 – IF EPOXY COATED REBAR USED

C4 S-301 **RC-004 SPLICE & DEVELOPMENT SCHEDULE**

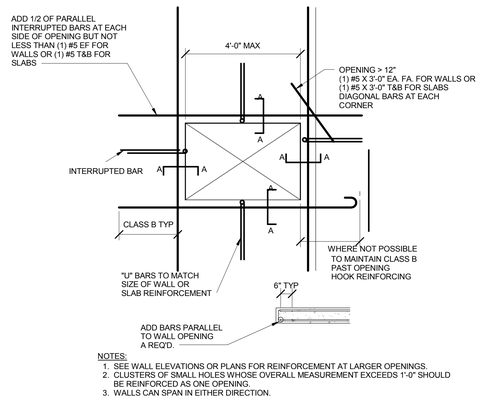
3/4" = 1'-0"



NOTE:
DETAIL DOES NOT APPLY FOR PENETRATIONS LARGER THAN 12" IN DIAMETER. SEE TYP SLAB OPENING DETAIL FOR SUCH PENETRATIONS.

C8 S-301 **TYP ALIGNED CIP SLAB PENETRATIONS**

3/4" = 1'-0"



NOTES:
1. SEE WALL ELEVATIONS OR PLANS FOR REINFORCEMENT AT LARGER OPENINGS.
2. CLUSTERS OF SMALL HOLES WHOSE OVERALL MEASUREMENT EXCEEDS 1'-0" SHOULD BE REINFORCED AS ONE OPENING.
3. WALLS CAN SPAN IN EITHER DIRECTION.

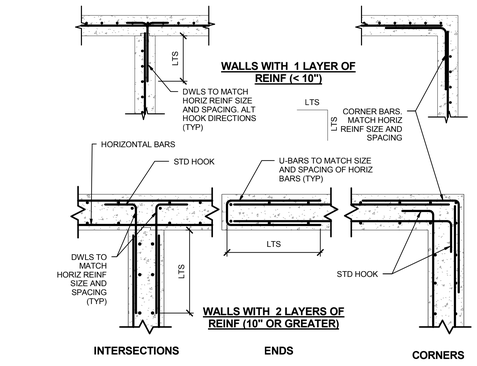
E1 S-301 **TYP WALL REINF AT OPENINGS**

1/2" = 1'-0"

NOTES:
1. COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE 1-#4X4'-0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

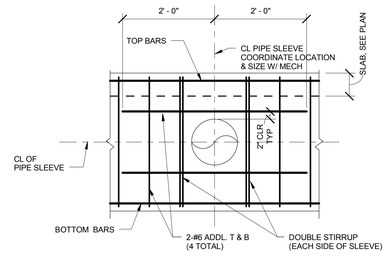
G4 S-301 **TYPICAL DETAIL SLAB ON GRADE AT FLOOR DEPRESSION**

3/4" = 1'-0"



G1 S-301 **RC-003 CONC WALL CORNERS**

1/2" = 1'-0"



G5 S-301 **CONCRETE BEAM PENETRATION DETAIL**

3/4" = 1'-0"

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APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: TYPICAL DETAILS - CONCRETE

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

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BUILDING NUMBER | AUTOCAD FILE NAME: | Location

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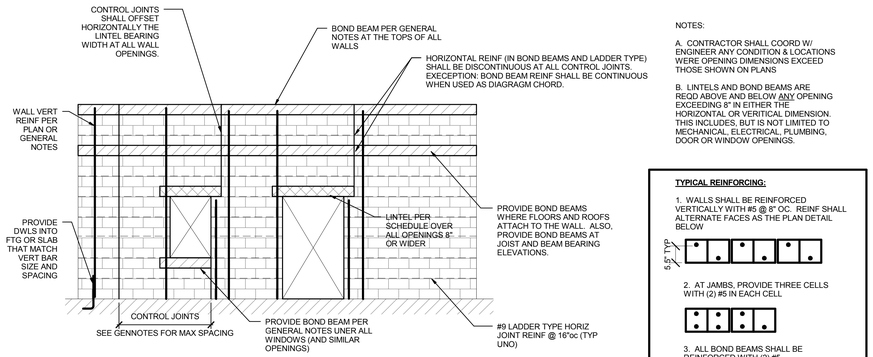
Department of Veterans Affairs



NOTES:

A. CONTRACTOR SHALL COORD W/ ENGINEER ANY CONDITION & LOCATIONS WERE OPENING DIMENSIONS EXCEED THOSE SHOWN ON PLANS

B. LINTELS AND BOND BEAMS ARE REQD ABOVE AND BELOW ANY OPENING EXCEEDING 8" IN EITHER THE HORIZONTAL OR VERITICAL DIMENSION. THIS INCLUDES, BUT IS NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, DOOR OR WINDOW OPENINGS.

TYPICAL REINFORCING:

1. WALLS SHALL BE REINFORCED VERTICALLY WITH #5 @ 8" OC. REINF SHALL ALTERNATE FACES AS THE PLAN DETAIL BELOW

2. AT JAMBS, PROVIDE THREE CELLS WITH (2) #5 IN EACH CELL

3. ALL BOND BEAMS SHALL BE REINFORCED WITH (2) #5.

4. ALL CELLS SHALL BE GROUTED SOLID

C1 S-303 — MS-001 TYP WALL REINF

1/4" = 1'-0"

LOOSE LINTEL SCHEDULE			
MARK	OPENING SIZE	LINTEL SIZE	BRG LEN
L1	UP TO 1'-8"	1/4" PL X WALL WIDTH - 1/2"	4"
L2	1'-9" TO 3'-0"	L 3-1/2" x 3-1/2" x 1/4"	4"
L3	3'-1" TO 4'-5"	L 4" x 3-1/2" x 5/16"	4"
L4	4'-6" TO 6'-3"	L 5" x 3-1/2" x 3/8"	4"
L5	6'-4" TO 8'-0"	L 6" x 3-1/2" x 3/8"	8"
L6	8'-1" TO 12'-0"	5/16" & 1/4" BENT PL (SEE DTL A)	8"

NOTES:

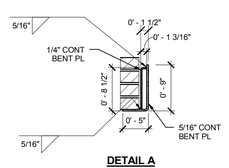
1. HEIGHT OF MASONRY ABOVE LINTEL MUST BE MINIMUM OF 1/2 THE OPENING WIDTH

2. PROVIDE ONE STEEL LINTEL FOR EACH 4" THICKNESS OF MASONRY. (FOR EXAMPLE: 3 ANGLES FOR 12" OF WALL)

3. LINTELS SPECIFICALLY CALLED OUT ON DRAWINGS SHALL GOVERN OVER THIS SCHEDULE

4. ALL STEEL ANGLES SHALL BE GALVANIZED AND SHALL HAVE SHORT LEG HORIZONTAL (SLH)

5. L6 REQUIRES A 2" MIN AIR GAP TO FIT IN WALL CAVITY.



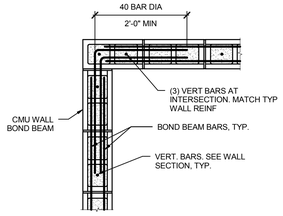
DETAIL A

C5 S-303 — MS-311 BRICK LINTEL SCHEDULE

1" = 1'-0"

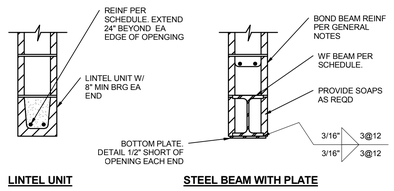
8" CMU LINTEL SCHEDULE	
MAX OPNG "W"	CMU LINTEL
6'-0"	8" HIGH LINTEL UNIT W/ 2-#5 HORZ BOTTOM
8'-0"	16" HIGH LINTEL UNIT W/ 2-#5 HORZ BOTTOM
10'-0"	W8X15 BEAM W/ 1/4" X 7" BOTTOM PLATE
12'-0"	W8X21 BEAM W/ 1/4" X 7" BOTTOM PLATE
16'-0"	W16X31 BEAM W/ 1/4" X 7" BOTTOM PLATE

NOTE:
AT EA END OF A STEEL LINTEL, PROVIDE A PL 3/8" x 7" x 0'-8" W/ (2) 1/2" DIA x 4" HEADED STUDS. FIELD WELD BEAM BOTT FLANGE TO PLATE 3/16" x 3" LONG EA SIDE AND EA END.



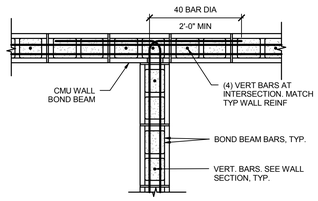
E1 S-303 — MS-002A BOND BEAM CORNERS

3/4" = 1'-0"



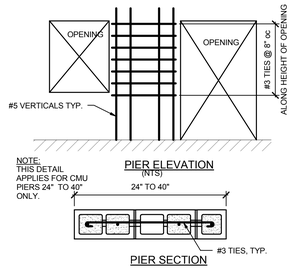
E3 S-303 — MS-003 TYP LINTEL SCHEDULE

12" = 1'-0"



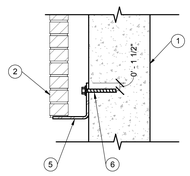
G1 S-303 — MS-002B BOND BEAM INTERSECTION

3/4" = 1'-0"



G3 S-303 — MS-009 PIER REINFORCING

3/4" = 1'-0"

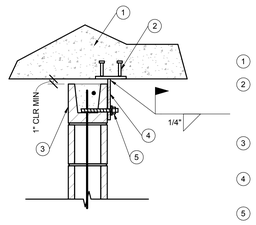


NOTES:

1. CONCRETE WALL OR BEAM. REFER TO PLAN
2. BRICK PER ARCH
3. BENT PL 7x7x7/16 GALVANIZED CONT
4. 5/8" DIA GALV SCREW ANCHOR x 5-1/2" MIN EMBED @ 24" OC MAX

G5 S-303 — LEDGER ANGLE DETAIL

1" = 1'-0"



NOTES:

1. CONCRETE BEAM OR SLAB
2. 6" SQ X 3/8" EMBED PL W/ (4) 1/2" DIA X 3" HSA. INSTALL ANCHORS AND EMBED PLATES @ 16" OC ALONG TOP OF WALL
3. CMU WALL. TOP COURSE TO BE GROUTED SOLID.
4. 4"x1/2"x0-7" PL W/ VERT SLOTTED HOLE FOR 1/2" DIA THREADED ROD
5. 1/2" DIA THREADED ROD SET IN EPOXY. EMBED 4-1/2" MIN. HAND TIGHTEN NUT AND BURR THREADS

G7 S-303 — CMU TOP OF WALL BRACING

1" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
Revisions:	

VA FORM 08-6231

Department of Veterans Affairs
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COMMONWEALTH OF VIRGINIA
PAUL WESLEY SPEARS
Lic. No. 045846
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12/28/12

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OK CERTIFICATE OF AUTHORITY NO: 02285

APPROVED: President A.F.G.E 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director
APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: TYPICAL DETAILS - MASONRY

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		PWS	PWS	

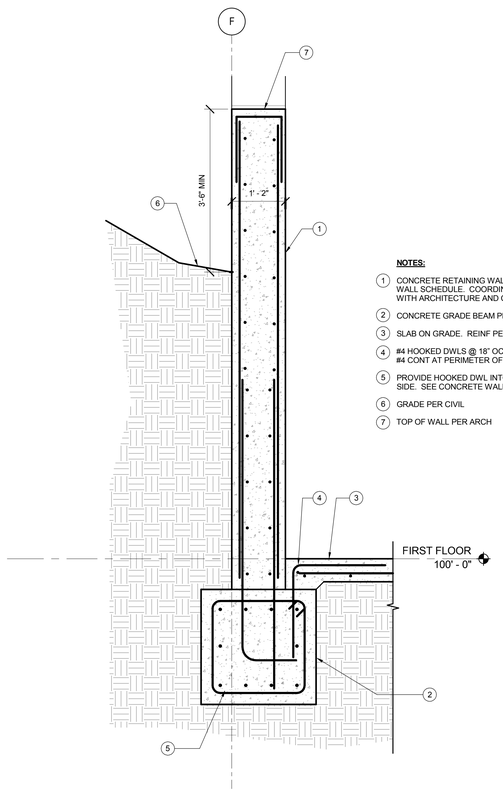
BUILDING NUMBER | AUTOCAD FILE NAME: | Location

Date: 11.26.12

Scale:

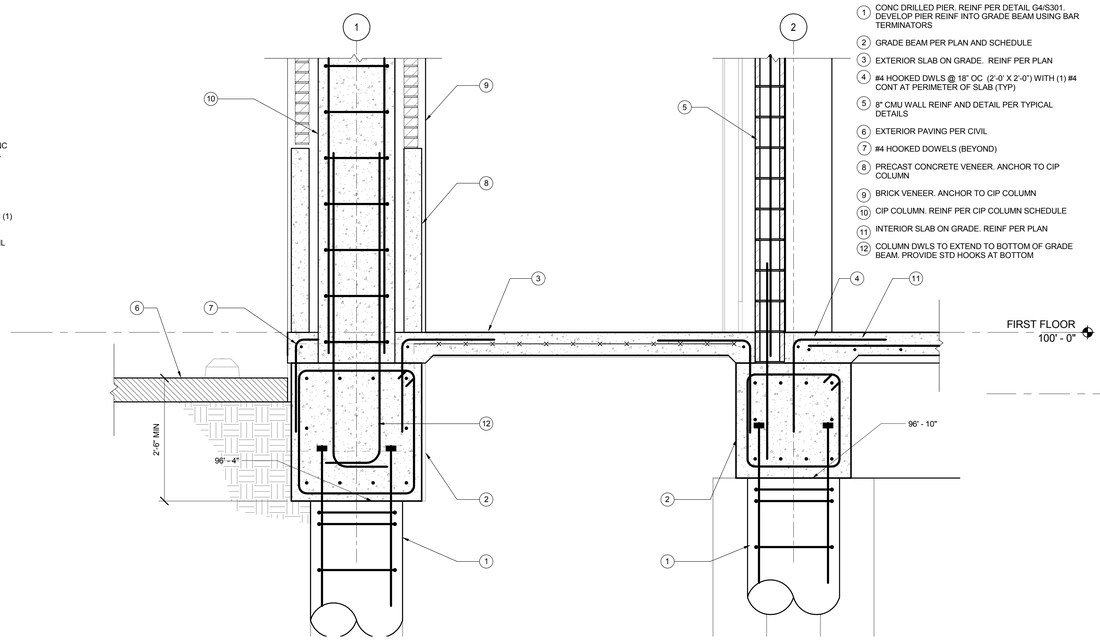
DRAWING NO: S-303

Department of Veterans Affairs



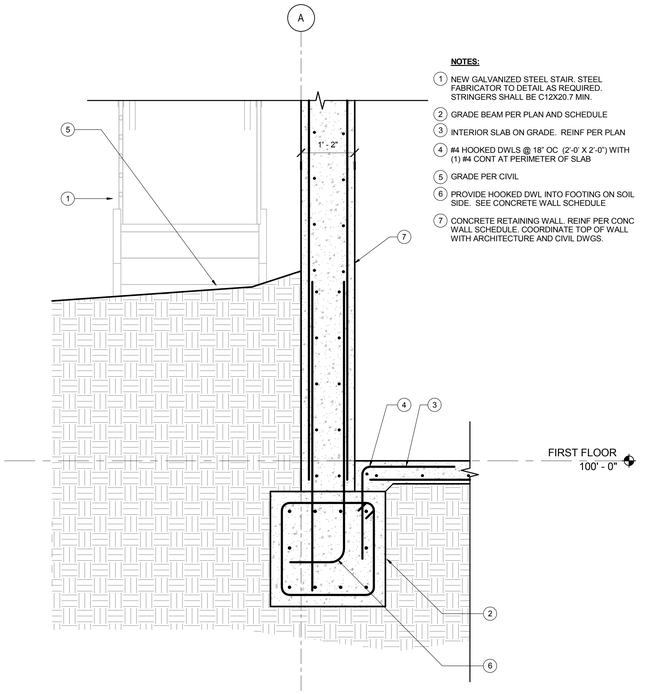
NOTES:

1. CONCRETE RETAINING WALL. REINF PER CONC WALL SCHEDULE. COORDINATE TOP OF WALL WITH ARCHITECTURE AND CIVIL DWGS.
2. CONCRETE GRADE BEAM PER SCHEDULE
3. SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB
5. PROVIDE HOOKED DWL INTO FOOTING ON SOIL SIDE. SEE CONCRETE WALL SCHEDULE
6. GRADE PER CIVIL
7. TOP OF WALL PER ARCH



NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING BAR TERMINATORS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. EXTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. 8" CMU WALL REINF AND DETAIL PER TYPICAL DETAILS
6. EXTERIOR PAVING PER CIVIL
7. #4 HOOKED DOWELS (BEYOND)
8. PRECAST CONCRETE VENEER. ANCHOR TO CIP COLUMN
9. BRICK VENEER. ANCHOR TO CIP COLUMN
10. CIP COLUMN. REINF PER CIP COLUMN SCHEDULE
11. INTERIOR SLAB ON GRADE. REINF PER PLAN
12. COLUMN DWLS TO EXTEND TO BOTTOM OF GRADE BEAM. PROVIDE STD HOOKS AT BOTTOM

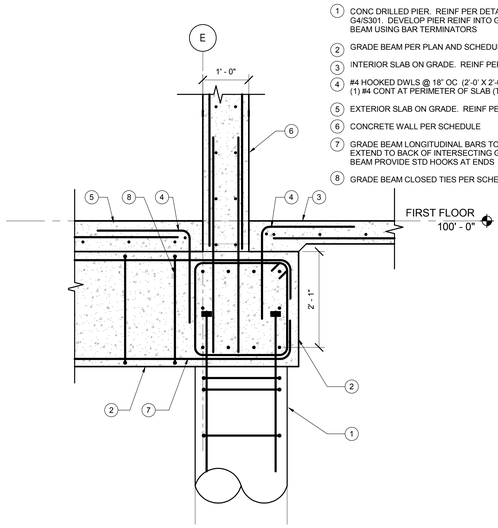


NOTES:

1. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN.
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB
5. GRADE PER CIVIL
6. PROVIDE HOOKED DWL INTO FOOTING ON SOIL SIDE. SEE CONCRETE WALL SCHEDULE
7. CONCRETE RETAINING WALL. REINF PER CONC WALL SCHEDULE. COORDINATE TOP OF WALL WITH ARCHITECTURE AND CIVIL DWGS.

D1 S-310 FOUNDATION SECTION

3/4" = 1'-0"

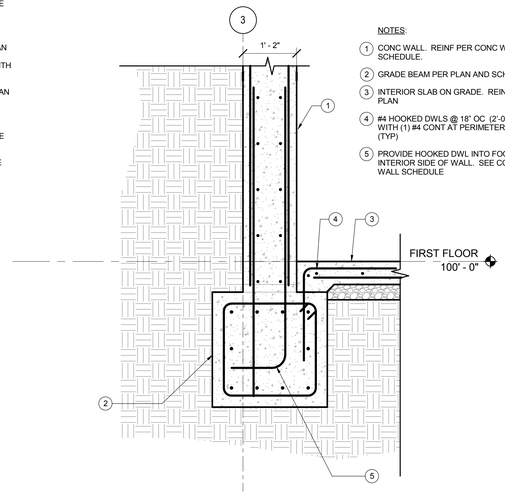


NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING BAR TERMINATORS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. EXTERIOR SLAB ON GRADE. REINF PER PLAN
6. CONCRETE WALL PER SCHEDULE
7. GRADE BEAM LONGITUDINAL BARS TO EXTEND TO BACK OF INTERSECTING GRADE BEAM PROVIDE STD HOOKS AT ENDS
8. GRADE BEAM CLOSED TIES PER SCHEDULE

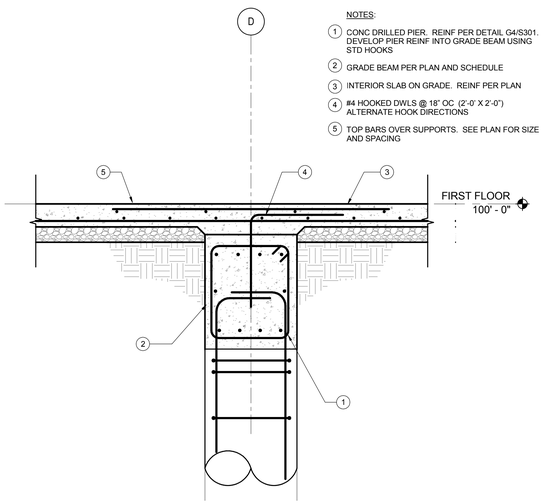
D3 S-310 FOUNDATION SECTION

3/4" = 1'-0"



NOTES:

1. CONC WALL. REINF PER CONC WALL SCHEDULE.
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. PROVIDE HOOKED DWL INTO FOOTING AT INTERIOR SIDE OF WALL. SEE CONCRETE WALL SCHEDULE

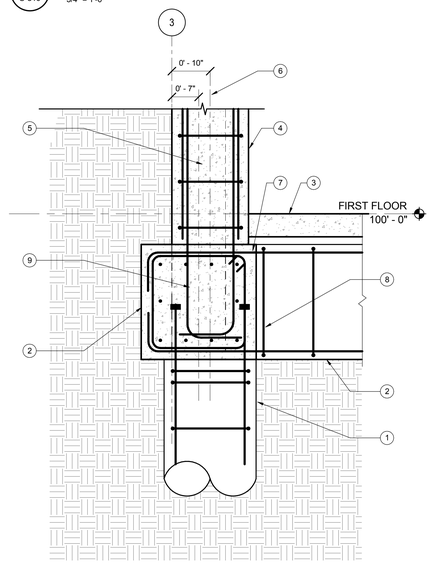


NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING STD HOOKS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") ALTERNATE HOOK DIRECTIONS
5. TOP BARS OVER SUPPORTS. SEE PLAN FOR SIZE AND SPACING

D8 S-310 FOUNDATION SECTION

3/4" = 1'-0"



NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING BAR TERMINATORS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. CIP COLUMN. REINF PER CIP COLUMN SCHEDULE
5. CENTERLINE OF CONCRETE COLUMN AND PIER
6. CENTERLINE OF CONCRETE WALL AND GRADE BEAM
7. GRADE BEAM LONGITUDINAL BARS TO EXTEND TO BACK OF INTERSECTING GRADE BEAM PROVIDE STD HOOKS AT ENDS
8. GRADE BEAM CLOSED TIES PER SCHEDULE COLUMN DWLS TO EXTEND TO BOTTOM OF GRADE BEAM. PROVIDE STD HOOKS AT BOTTOM

G1 S-310 FOUNDATION SECTION

3/4" = 1'-0"

G3 S-310 FOUNDATION SECTION

3/4" = 1'-0"

G5 S-310 FOUNDATION SECTION

3/4" = 1'-0"

G8 S-310 FOUNDATION SECTION

3/4" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
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VA FORM 08-6231

Department of Veterans Affairs
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PAUL WESLEY SPEARS
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OK CERTIFICATE OF AUTHORITY NO: 02295

APPROVED: President A.F.G.E 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director
APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: FOUNDATION SECTIONS

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

Scale:

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		PWS	PWS	

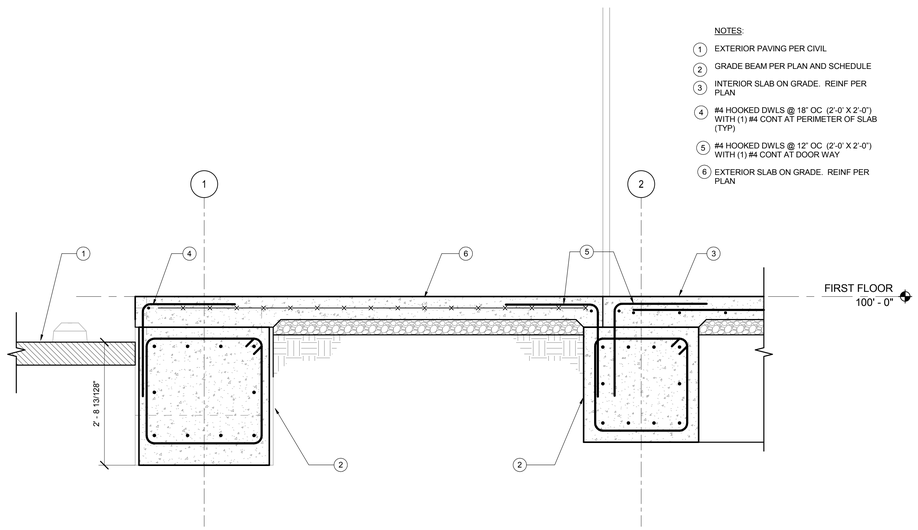
BUILDING NUMBER:

AUTOCAD FILE NAME:

Location:

DRAWING NO: S-310

Department of Veterans Affairs



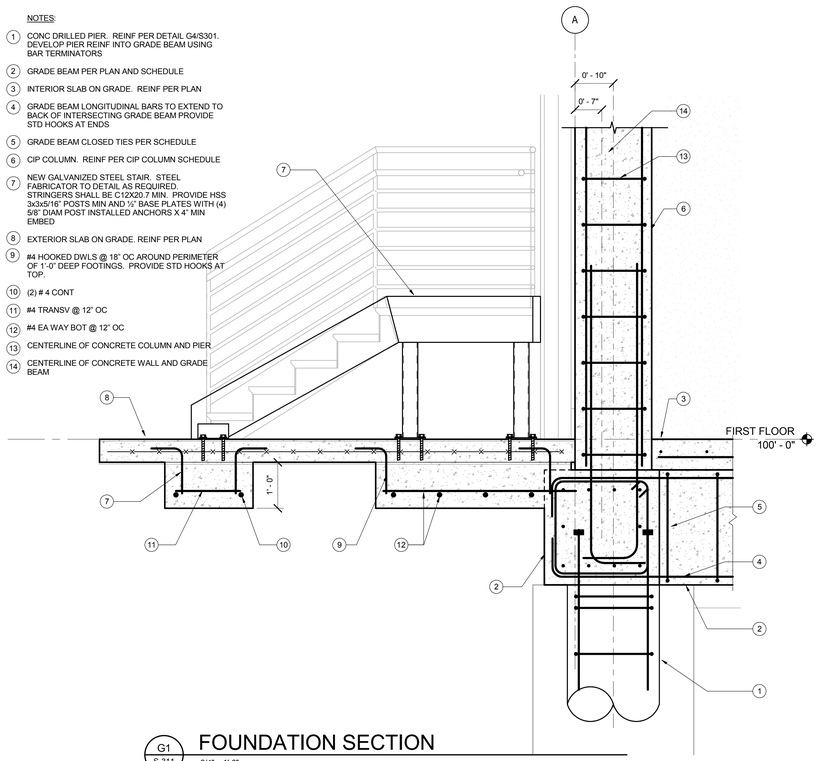
NOTES:

1. EXTERIOR PAVING PER CIVIL
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. #4 HOOKED DWLS @ 12" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT DOOR WAY
6. EXTERIOR SLAB ON GRADE. REINF PER PLAN

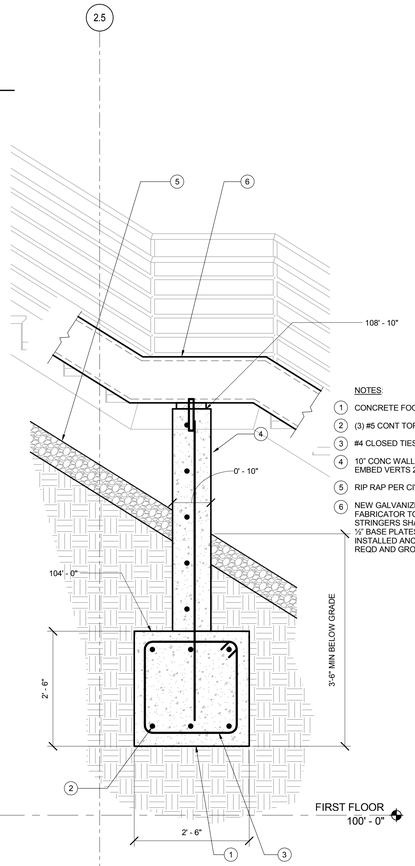
C1 / S-311 FOUNDATION SECTION
3/4" = 1'-0"

NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING BAR TERMINATORS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. INTERIOR SLAB ON GRADE. REINF PER PLAN
4. GRADE BEAM LONGITUDINAL BARS TO EXTEND TO BACK OF INTERSECTING GRADE BEAM PROVIDE STD HOOKS AT ENDS
5. GRADE BEAM CLOSED TIES PER SCHEDULE
6. CIP COLUMN. REINF PER CIP COLUMN SCHEDULE
7. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN. PROVIDE HSS 3x3x5/16" POSTS MIN AND ½" BASE PLATES WITH (4) 5/8" DIAM POST INSTALLED ANCHORS X 4" MIN EMBED
8. EXTERIOR SLAB ON GRADE. REINF PER PLAN
9. #4 HOOKED DWLS @ 18" OC AROUND PERIMETER OF 1'-0" DEEP FOOTINGS. PROVIDE STD HOOKS AT TOP.
10. (2) # 4 CONT
11. #4 TRANSV @ 12" OC
12. #4 EA WAY BOT @ 12" OC
13. CENTERLINE OF CONCRETE COLUMN AND PIER
14. CENTERLINE OF CONCRETE WALL AND GRADE BEAM



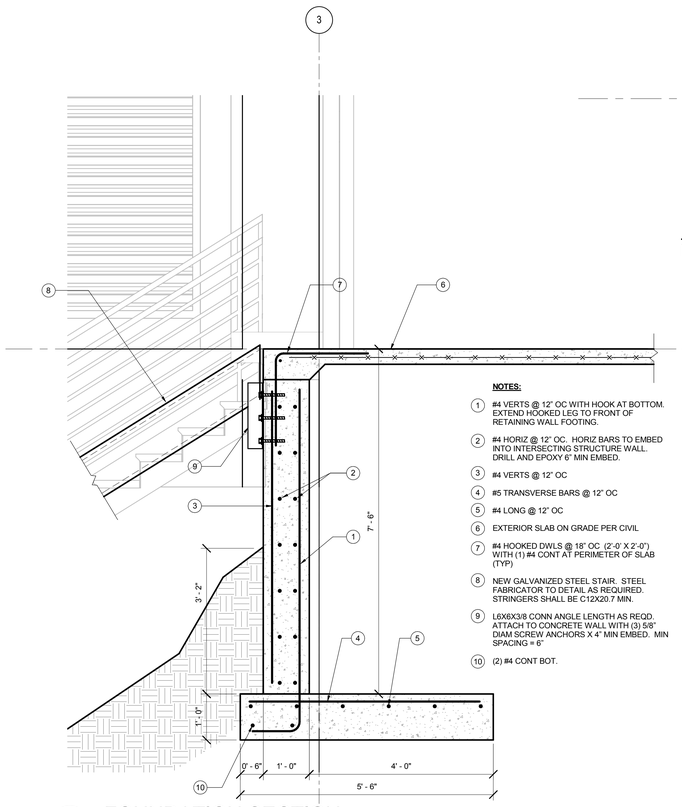
G1 / S-311 FOUNDATION SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE FOOTING FOR STAIR SUPPORT
2. (3) #5 CONT TOP AND BOTT
3. #4 CLOSED TIES @ 16" OC
4. 10" CONC WALL. REINF WITH #4 @ 12" OC EW. EMBED VERTS 24" INTO FTG
5. RIP RAP PER CIVIL
6. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN. PROVIDE ½" BASE PLATES WITH (2) 5/8" DIAM POST INSTALLED ANCHORS X 4" MIN EMBED. SHIM AS REQD AND GROUT.

G5 / S-311 FOUNDATION SECTION
3/4" = 1'-0"



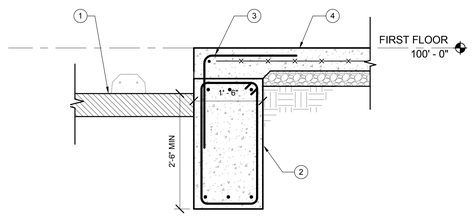
NOTES:

1. #4 VERTS @ 12" OC WITH HOOK AT BOTTOM. EXTEND HOOKED LEG TO FRONT OF RETAINING WALL FOOTING.
2. #4 HORIZ @ 12" OC. HORIZ BARS TO EMBED INTO INTERSECTING STRUCTURE WALL. DRILL AND EPOXY 6" MIN EMBED.
3. #4 VERTS @ 12" OC
4. #5 TRANSVERSE BARS @ 12" OC
5. #4 LONG @ 12" OC
6. EXTERIOR SLAB ON GRADE PER CIVIL
7. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
8. NEW GALVANIZED STEEL STAIR. STEEL FABRICATOR TO DETAIL AS REQUIRED. STRINGERS SHALL BE C12X20.7 MIN.
9. L6X6X3/8 CONN ANGLE LENGTH AS REQD. ATTACH TO CONCRETE WALL WITH (3) 5/8" DIAM SCREW ANCHORS X 4" MIN EMBED. MIN SPACING = 6"
10. (2) #4 CONT BOT.

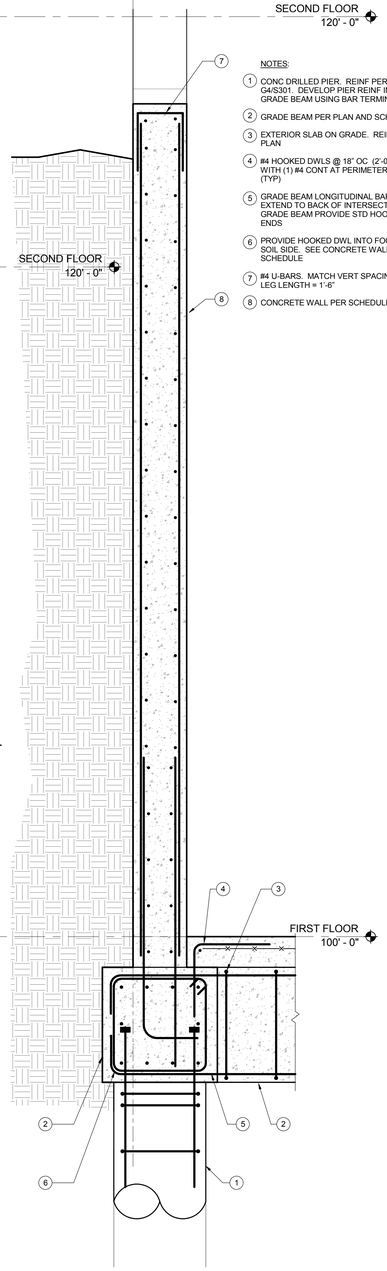
D6 / S-311 FOUNDATION SECTION
3/4" = 1'-0"

NOTES:

1. EXTERIOR PAVING PER CIVIL
2. GRADE BEAM PER PLAN AND SCHEDULE
3. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
4. EXTERIOR SLAB ON GRADE. REINF PER PLAN



G7 / S-311 FOUNDATION SECTION
3/4" = 1'-0"



NOTES:

1. CONC DRILLED PIER. REINF PER DETAIL G4/S301. DEVELOP PIER REINF INTO GRADE BEAM USING BAR TERMINATORS
2. GRADE BEAM PER PLAN AND SCHEDULE
3. EXTERIOR SLAB ON GRADE. REINF PER PLAN
4. #4 HOOKED DWLS @ 18" OC (2'-0" X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. GRADE BEAM LONGITUDINAL BARS TO EXTEND TO BACK OF INTERSECTING GRADE BEAM PROVIDE STD HOOKS AT ENDS
6. PROVIDE HOOKED DWL INTO FOOTING ON SOIL SIDE. SEE CONCRETE WALL SCHEDULE
7. #4 U-BARS. MATCH VERT SPACING, VERT LEG LENGTH = 1'-6"
8. CONCRETE WALL PER SCHEDULE

G9 / S-311 FOUNDATION SECTION
3/4" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
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APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: FOUNDATION SECTIONS & DETAILS

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

Scale:

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		PWS	PWS	

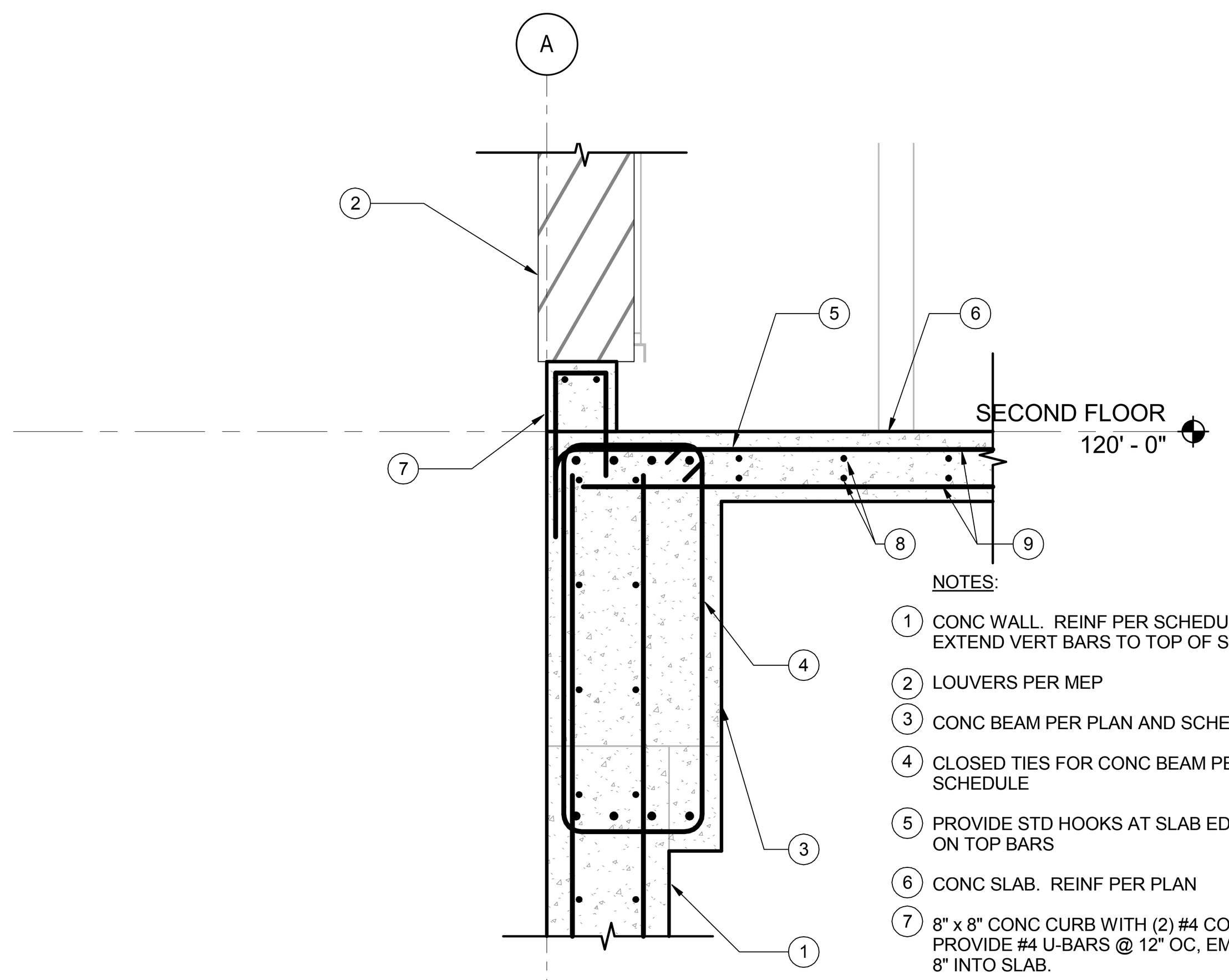
BUILDING NUMBER:

AUTOCAD FILE NAME:

Location:

DRAWING NO: S-311

Department of Veterans Affairs

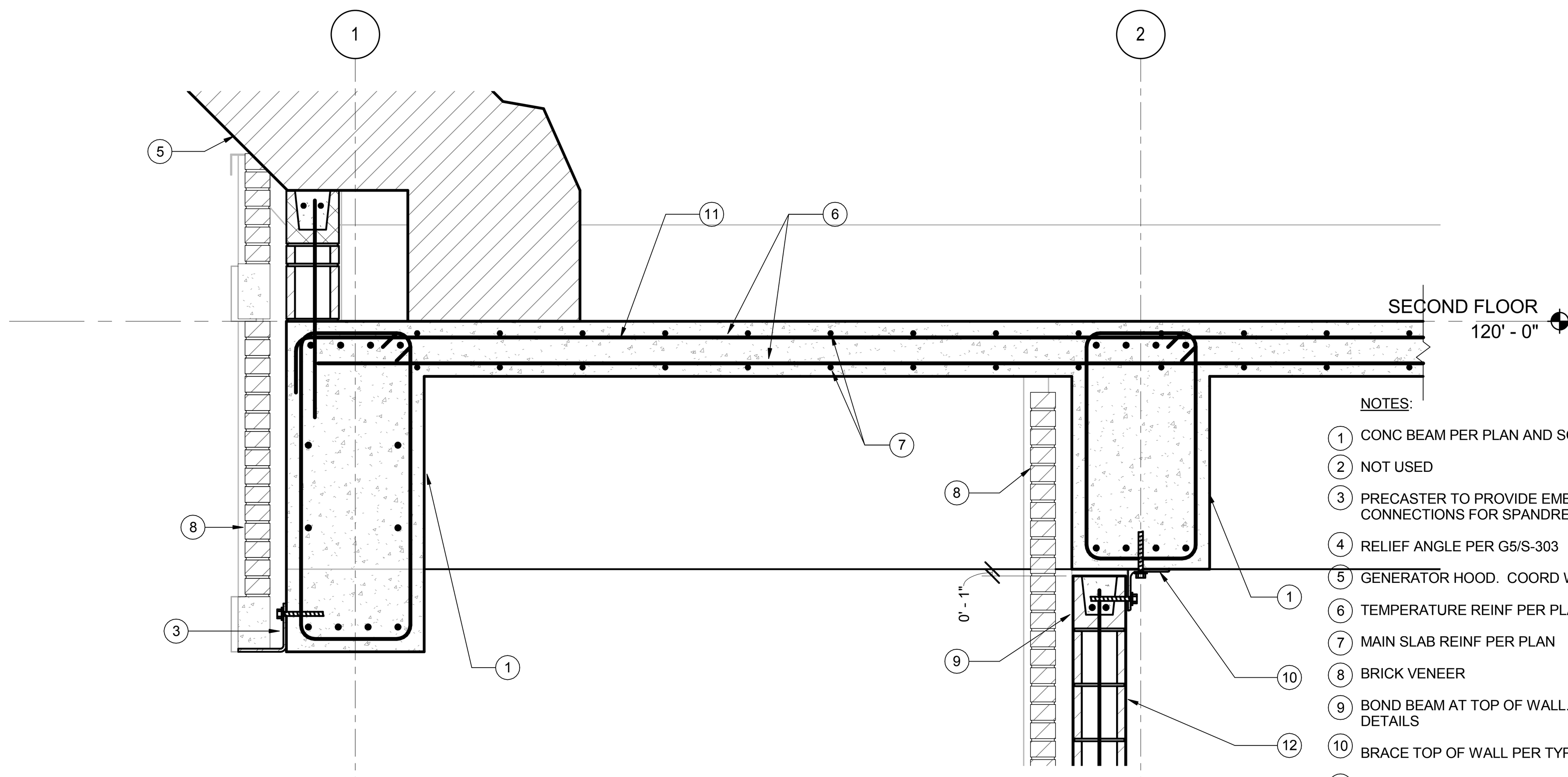


NOTES:

1. CONC WALL. REINF PER SCHEDULE. EXTEND VERT BARS TO TOP OF SLAB
2. LOUVERS PER MEP
3. CONC BEAM PER PLAN AND SCHEDULE
4. CLOSED TIES FOR CONC BEAM PER SCHEDULE
5. PROVIDE STD HOOKS AT SLAB EDGE ON TOP BARS
6. CONC SLAB. REINF PER PLAN
7. 8" x 8" CONC CURB WITH (2) #4 CONT. PROVIDE #4 U-BARS @ 12" OC, EMBED 8" INTO SLAB.
8. TEMPERATURE REINF PER PLAN
9. MAIN SLAB REINF PER PLAN

C1 S-320 FLOOR SECTION

3/4" = 1'-0"

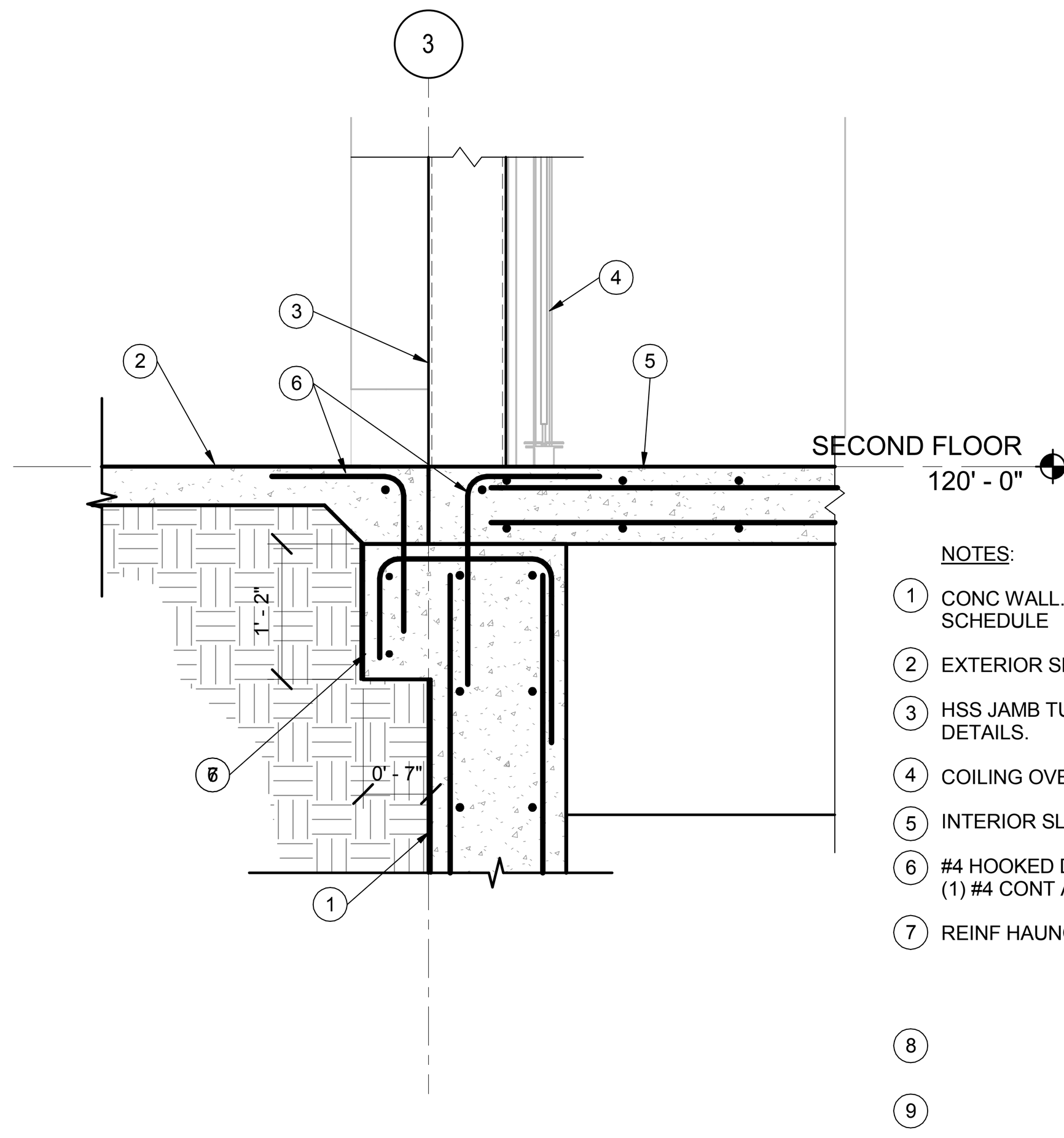


NOTES:

1. CONC BEAM PER PLAN AND SCHEDULE
2. NOT USED
3. PRECASTER TO PROVIDE EMBEDS AND SUPPORT CONNECTIONS FOR SPANDREL PANELS
4. RELIEF ANGLE PER G5/S-303
5. GENERATOR HOOD. COORD WITH MEP
6. TEMPERATURE REINF PER PLAN
7. MAIN SLAB REINF PER PLAN
8. BRICK VENEER
9. BOND BEAM AT TOP OF WALL. REINF PER TYPICAL DETAILS
10. BRACE TOP OF WALL PER TYPICAL DETAILS
11. PROVIDE STD HOOKS AT SLAB EDGE ON TOP BARS
12. CMU PARTITION WALL. REINF PER PLAN

C3 S-320 FLOOR SECTION

3/4" = 1'-0"

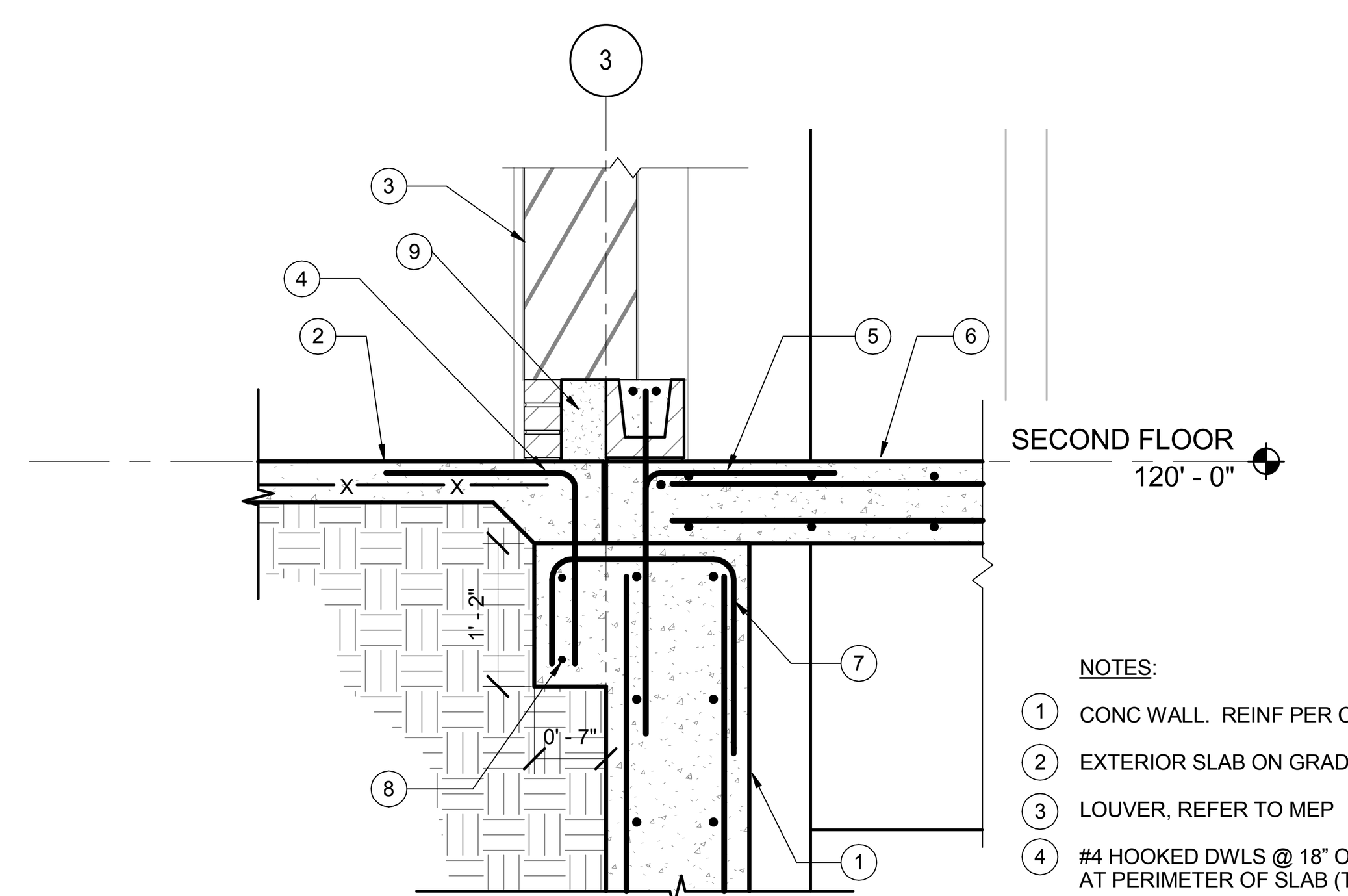


NOTES:

1. CONC WALL. REINF PER CONC WALL SCHEDULE
2. EXTERIOR SLAB ON GRADE. REINF PER CIVIL
3. HSS JAMB TUBE. REFER TO SHEET S201 FOR DETAILS.
4. COILING OVERHEAD DOOR. PER ARCH
5. INTERIOR SLAB. REINF PER PLAN
6. #4 HOOKED DWLS @ 18" OC (2'-0' X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
7. REINF HAUNCH PER E1/S320
8.
9.

C8 S-320 FLOOR SECTION

3/4" = 1'-0"

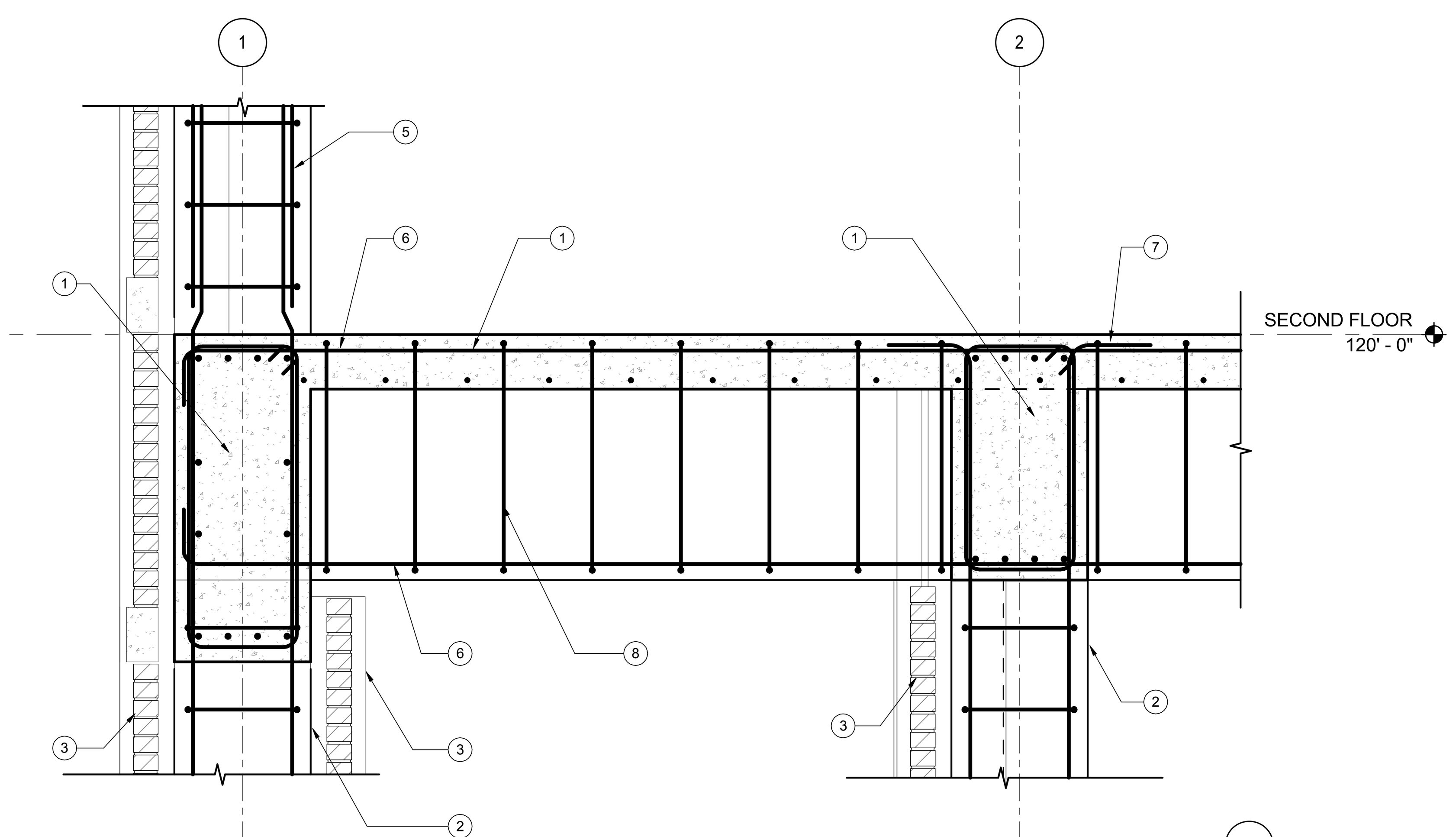


NOTES:

1. CONC WALL. REINF PER CONC WALL SCHEDULE
2. EXTERIOR SLAB ON GRADE. REINF PER CIVIL
3. LOUVER, REFER TO MEP
4. #4 HOOKED DWLS @ 18" OC (2'-0' X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
5. #4 HOOKED DWLS @ 18" OC (2'-0' X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
6. INTERIOR SLAB. REINF PER PLAN
7. #4 U-BARS. MATCH VERT WALL REINF SPACING
8. (2) #4 CONT
9. GROUT SOLID IN CAVITY

E1 S-320 FLOOR SECTION

3/4" = 1'-0"



NOTES:

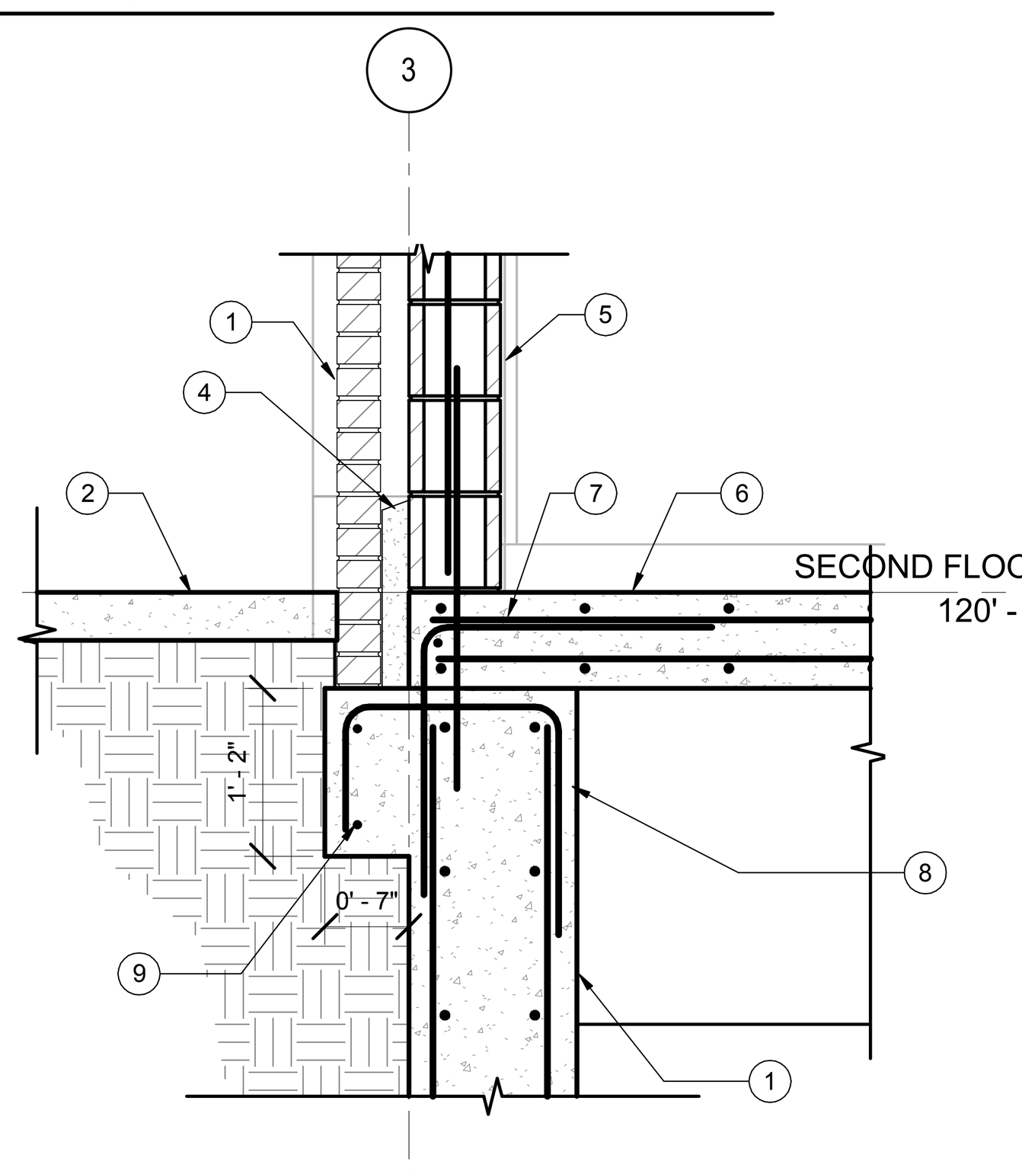
1. CONCRETE BEAM REINF PER PLAN AND SCHEDULE
2. CONCRETE COLUMN. REINF PER PLAN AND SCHEDULE
3. BRICK VENEER. REFER TO ARCH
4. NOT USED
5. SPLICE COLUMN REINFORCING ABOVE SECOND FLOOR
6. EXTEND BEAM REINF TO BACK OF INTERSECTING BEAM OR COLUMN AND PROVIDE STD HOOKS AT ENDS
7. PROVIDE STD HOOKS AT TOP OF COLUMN REINF AT TOP OF SLAB
8. BEAM REINFORCING TIES. REFER TO PLAN AND SCHEDULE

E3 S-320 FLOOR SECTION

3/4" = 1'-0"

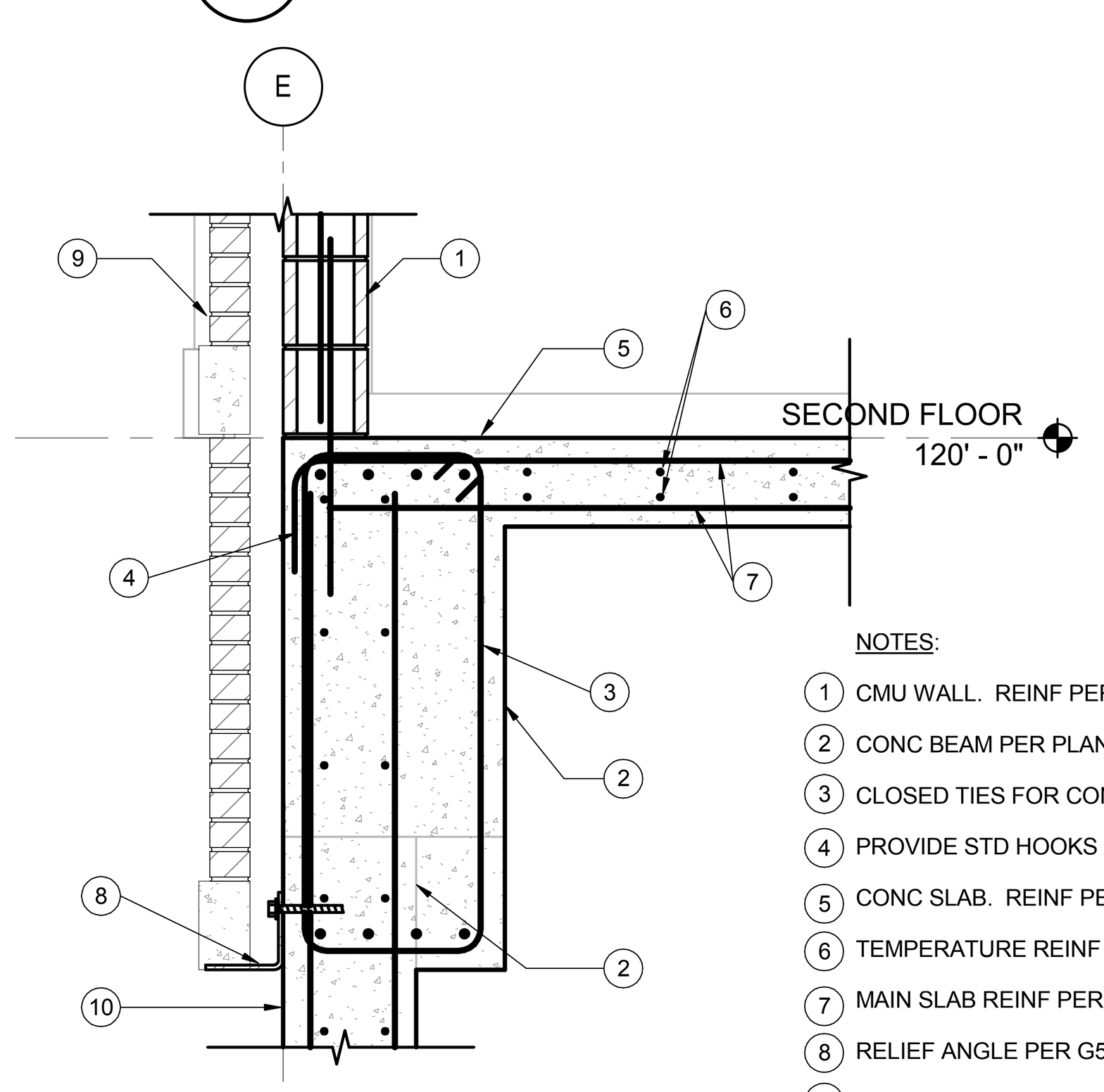
NOTES:

1. CONC WALL. REINF PER CONC WALL SCHEDULE
2. EXTERIOR SLAB ON GRADE. REINF PER CIVIL
3. BRICK VENEER REFER TO ARCH
4. GROUT CAVITY SOLID BELOW GRADE
5. CMU PARTITION WALL. REINF PER TYP DETAILS
6. INTERIOR SLAB. REINF PER PLAN
7. #4 HOOKED DWLS @ 18" OC (2'-0' X 2'-0") WITH (1) #4 CONT AT PERIMETER OF SLAB (TYP)
8. #4 U-BARS. MATCH VERT WALL REINF SPACING
9. (2) #4 CONT



G1 S-320 FLOOR SECTION

3/4" = 1'-0"

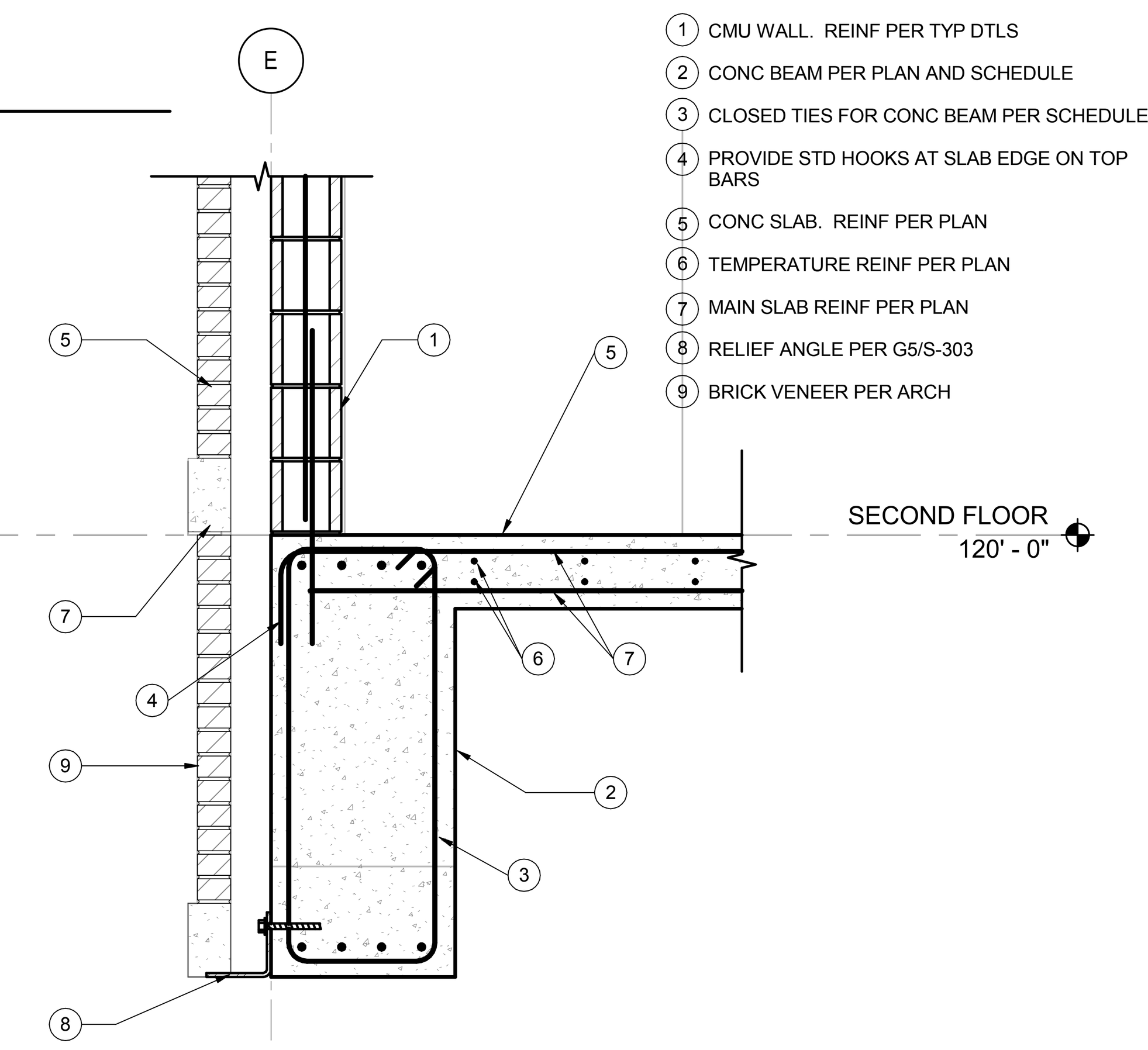


NOTES:

1. CMU WALL. REINF PER TYP DTLS
2. CONC BEAM PER PLAN AND SCHEDULE
3. CLOSED TIES FOR CONC BEAM PER SCHEDULE
4. PROVIDE STD HOOKS AT SLAB EDGE ON TOP BARS
5. CONC SLAB. REINF PER PLAN
6. TEMPERATURE REINF PER PLAN
7. MAIN SLAB REINF PER PLAN
8. RELIEF ANGLE PER G5/S-303
9. BRICK VENEER PER ARCH
10. CONC WALL. REINF PER CONCRETE WALL SCHED

G2 S-320 FLOOR SECTION

3/4" = 1'-0"

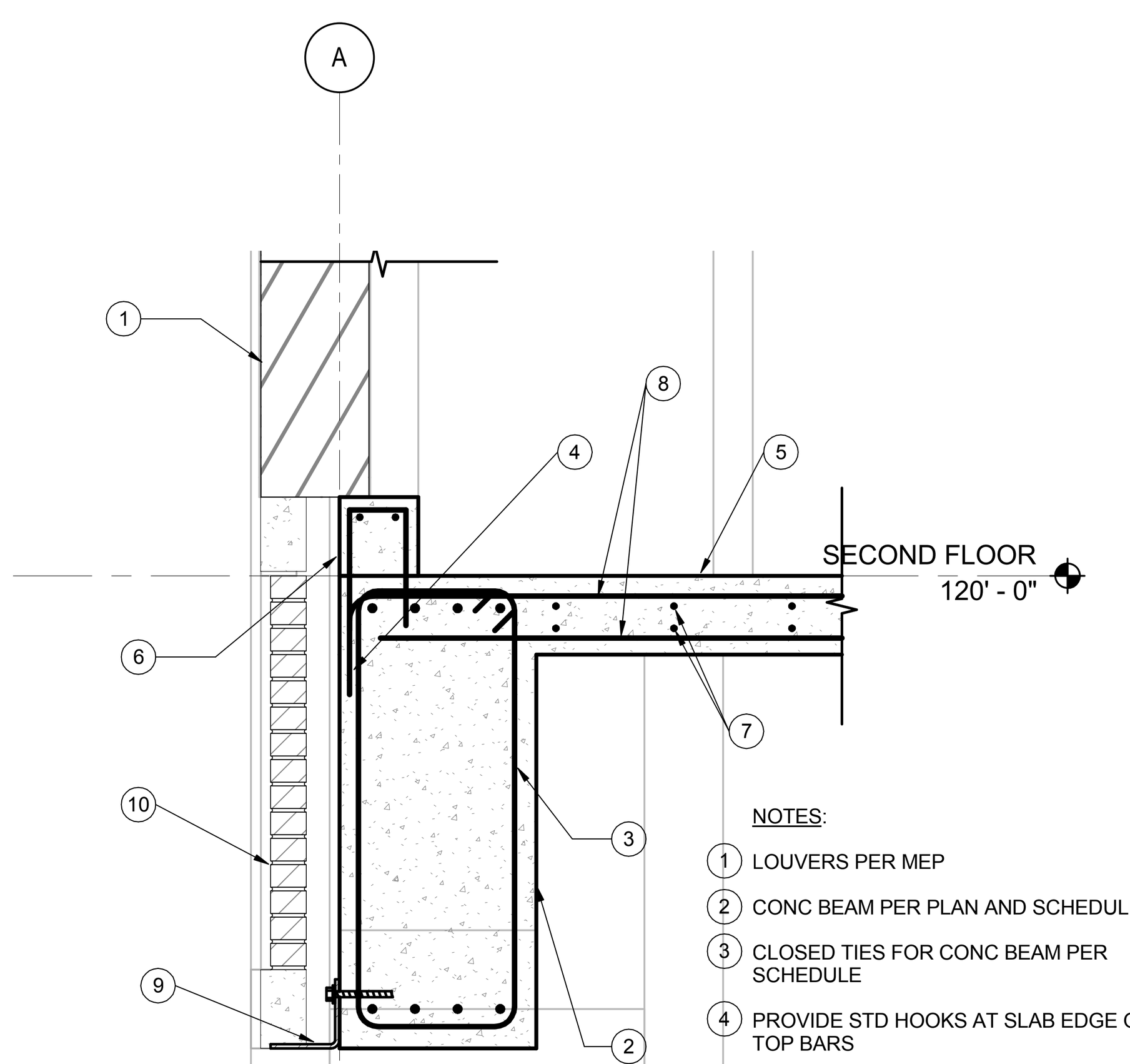


NOTES:

1. CMU WALL. REINF PER TYP DTLS
2. CONC BEAM PER PLAN AND SCHEDULE
3. CLOSED TIES FOR CONC BEAM PER SCHEDULE
4. PROVIDE STD HOOKS AT SLAB EDGE ON TOP BARS
5. CONC SLAB. REINF PER PLAN
6. TEMPERATURE REINF PER PLAN
7. MAIN SLAB REINF PER PLAN
8. RELIEF ANGLE PER G5/S-303
9. BRICK VENEER PER ARCH

G6 S-320 FLOOR SECTION

3/4" = 1'-0"



NOTES:

1. LOUVERS PER MEP
2. CONC BEAM PER PLAN AND SCHEDULE
3. CLOSED TIES FOR CONC BEAM PER SCHEDULE
4. PROVIDE STD HOOKS AT SLAB EDGE ON TOP BARS
5. CONC SLAB. REINF PER PLAN
6. 8" x 8" CONC CURB WITH (2) #4 CONT. PROVIDE #4 U-BARS @ 12" OC, EMBED 8" INTO SLAB.
7. TEMPERATURE REINF PER PLAN
8. MAIN SLAB REINF PER PLAN
9. RELIEF ANGLE PER G5/S-303
10. BRICK VENEER PER ARCH

G8 S-320 FLOOR SECTION

3/4" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
Revisions:	

VA FORM 08-6231

Department of Veterans Affairs
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APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: FLOOR FRAMING SECTIONS

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

Scale:

PROJECT NUMBER: 623-12-101

CONTRACT NO:

Designed By: PWS

Drawn By: PWS

Checked By:

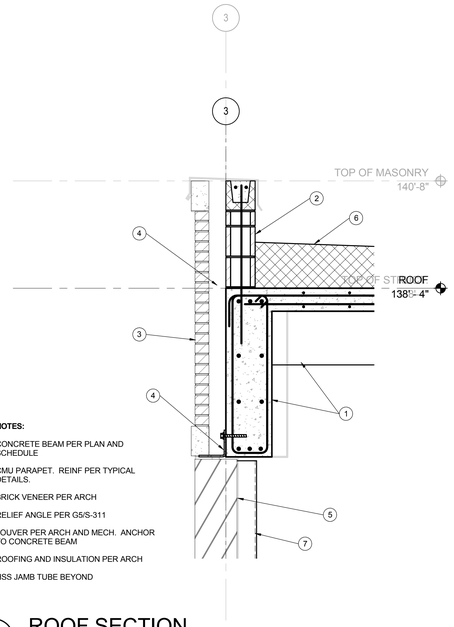
DRAWING NO: S-320

BUILDING NUMBER:

AUTOCAD FILE NAME:

Location:

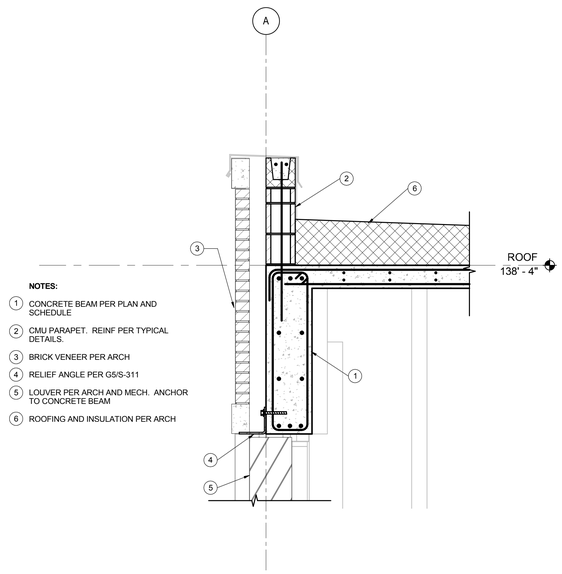
Department of Veterans Affairs



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS.
3. BRICK VENEER PER ARCH
4. RELIEF ANGLE PER G5/S-311
5. LOUVER PER ARCH AND MECH. ANCHOR TO CONCRETE BEAM
6. ROOFING AND INSULATION PER ARCH
7. HSS JAMB TUBE BEYOND

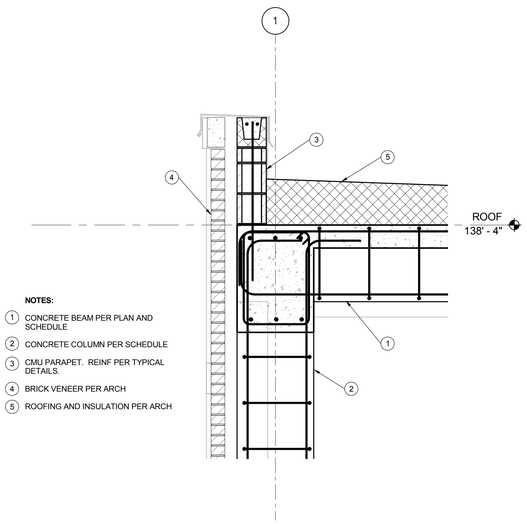
C1 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS.
3. BRICK VENEER PER ARCH
4. RELIEF ANGLE PER G5/S-311
5. LOUVER PER ARCH AND MECH. ANCHOR TO CONCRETE BEAM
6. ROOFING AND INSULATION PER ARCH

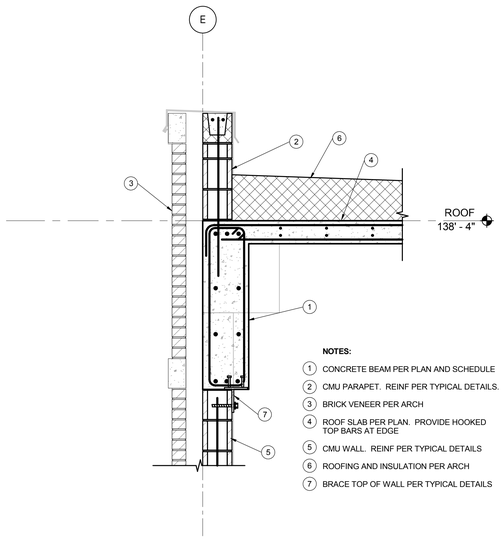
C3 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CONCRETE COLUMN PER SCHEDULE
3. CMU PARAPET. REINF PER TYPICAL DETAILS.
4. BRICK VENEER PER ARCH
5. ROOFING AND INSULATION PER ARCH

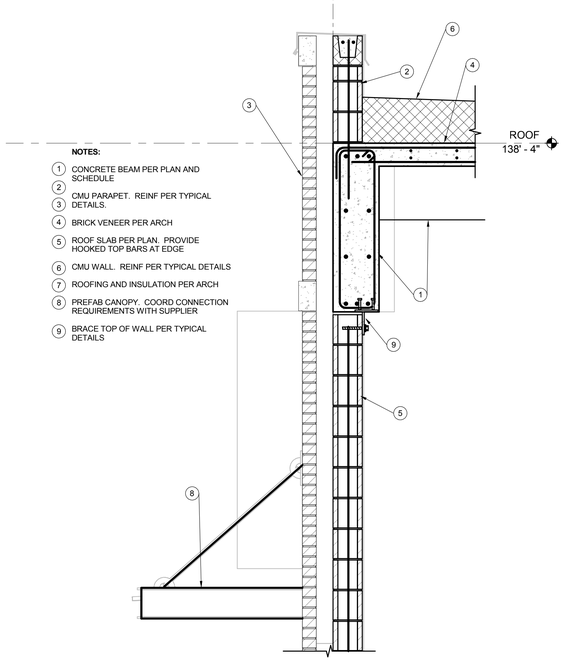
C6 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS.
3. BRICK VENEER PER ARCH
4. ROOF SLAB PER PLAN. PROVIDE HOOKED TOP BARS AT EDGE
5. CMU WALL. REINF PER TYPICAL DETAILS
6. ROOFING AND INSULATION PER ARCH
7. BRACE TOP OF WALL PER TYPICAL DETAILS

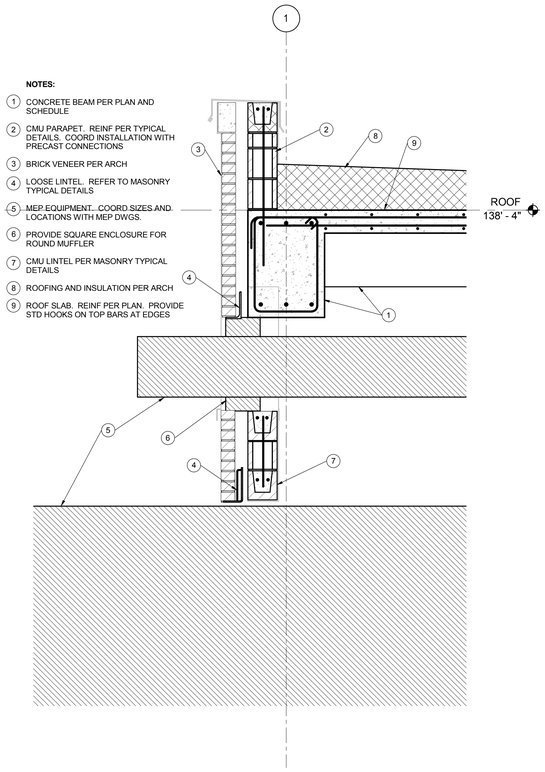
C8 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS.
3. BRICK VENEER PER ARCH
4. BRICK VENEER PER ARCH
5. ROOF SLAB PER PLAN. PROVIDE HOOKED TOP BARS AT EDGE
6. CMU WALL. REINF PER TYPICAL DETAILS
7. ROOFING AND INSULATION PER ARCH
8. PREFAB CANOPY. COORD CONNECTION REQUIREMENTS WITH SUPPLIER
9. BRACE TOP OF WALL PER TYPICAL DETAILS

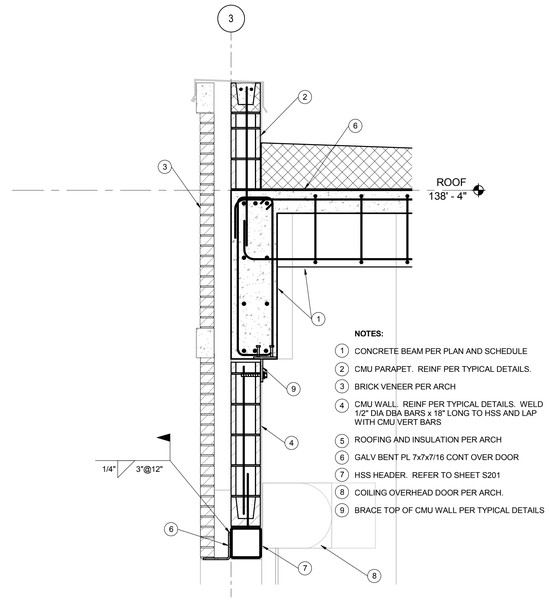
F1 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS. COORD INSTALLATION WITH PRECAST CONNECTIONS
3. BRICK VENEER PER ARCH
4. LOOSE LINTEL. REFER TO MASONRY TYPICAL DETAILS
5. MEP EQUIPMENT. COORD SIZES AND LOCATIONS WITH MEP DWGS.
6. PROVIDE SQUARE ENCLOSURE FOR ROUND MUFFLER
7. CMU LINTEL PER MASONRY TYPICAL DETAILS
8. ROOFING AND INSULATION PER ARCH
9. ROOF SLAB. REINF PER PLAN. PROVIDE STD HOOKS ON TOP BARS AT EDGES

F3 / S-330 — ROOF SECTION
3/4" = 1'-0"



NOTES:

1. CONCRETE BEAM PER PLAN AND SCHEDULE
2. CMU PARAPET. REINF PER TYPICAL DETAILS.
3. BRICK VENEER PER ARCH
4. CMU WALL. REINF PER TYPICAL DETAILS. WELD 1/2" DIA DBA BARS x 18" LONG TO HSS AND LAP WITH CMU VERT BARS
5. ROOFING AND INSULATION PER ARCH
6. GALV BENT PL 7x7x7/16 CONT OVER DOOR
7. HSS HEADER. REFER TO SHEET S201
8. COILING OVERHEAD DOOR PER ARCH.
9. BRACE TOP OF CMU WALL PER TYPICAL DETAILS

1 / S-330 — FLOOR SECTION
3/4" = 1'-0"

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
Revisions:	

VA FORM 26-8231

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APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: ROOF FRAMING SECTIONS

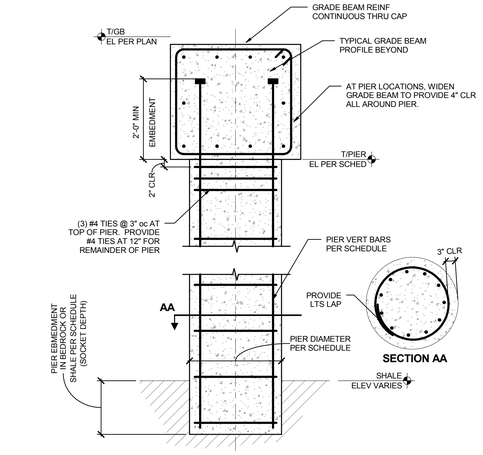
Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		PWS	PWS	

BUILDING NUMBER | AUTOCAD FILE NAME: | Location

Date: 11.26.12
Scale:
DRAWING NO: S-330

Department of Veterans Affairs



DRILLED PIER SCHEDULE			
	DIMENSIONS		
MARK	SHAFT DIAMETER	SOCKET DEPTH	VERT REINF
DP2.0	2' - 0"	10' - 0"	(12) #7
DP3.5	3' - 6"	10' - 0"	(16) #8

C2
S-601

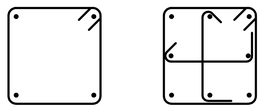
FDN-004B DRILLED SHAFT @ GRADE BM

NTS

ROOF			ROOF
138' - 4"			138' - 4"
MARK SIZE VERT BARS TIES	C2 20"x 20" (12) #7 #4 @ 12"oc		
SECOND FLOOR			SECOND FLOOR
120' - 0"			120' - 0"
MARK SIZE VERT BARS TIES	C1 20"x 20" (12) #6 #4 @ 12"oc	C1 20"x 20" (12) #6 #4 @ 12"oc	
FIRST FLOOR			FIRST FLOOR
100' - 0"			100' - 0"
Column Locations	A-1, A-3, B-1, B-3, C-1, C-3, D-1, D-3, E-1, E-3	A-2, B-2, C-2, D-2, E-2	

REFERENCE DETAILS G2 AND G4 ON THIS
SHEET FOR ADDITIONAL INFO

CONCRETE COLUMN SCHEDULE



4 BAR

8 BAR

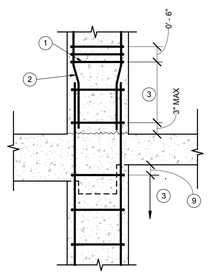
TIE NOTES:

1. MIN COVER, 1- 1/2" TO TIES UNO
2. EQUAL SPACE BARS UNO
3. ALTERNATE POSITIONS OF HOOKS
4. ALTERNATE TIE ARRANGEMENT MAY BE SUBMITTED FOR REVIEW / ACCEPTANCE. TIE CONFIGURATION MUST COMPLY WITH ACI REQUIREMENTS.

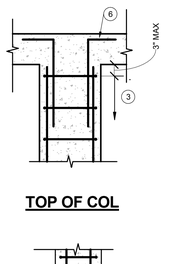
G2
S-601

CIP COL TIES

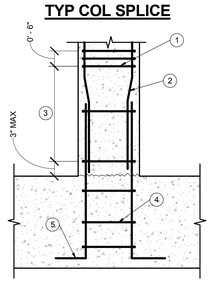
NTS



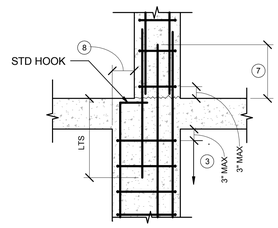
TYP COL SPLICE



TOP OF COL



AT FTG



OFFSET IN COL SIZE

NOTES, CIP COLUMN DETAILS

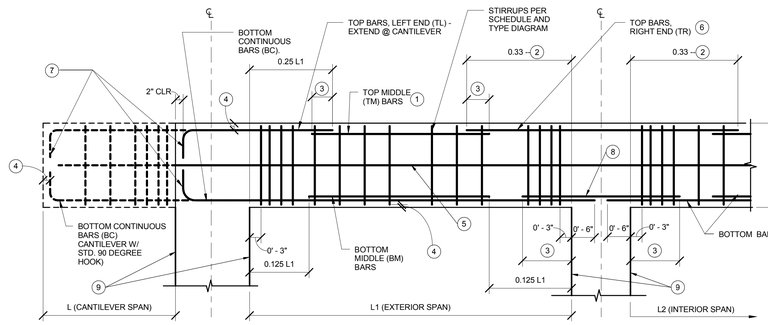
1. 3 TIE SETS AT TOP OF SLOPE
2. SLOPE IS 1:6 MAX
3. TYPICAL TIE SPACING PER SCHEDULE
4. (3) SETS OF ADDITIONAL TIES INTO PILE CAP OR FTG. DISTRIBUTE ALONG EMBEDED LENGTH
5. DOWELS INTO FTG MATCHING COLUMN VERT BARS. EMBED LTE INTO FTG OR PILE CAP. IF REQUIRED EMBEDMENT IS GREATER THAN DEPTH OF FTG OR PILE CAP, PROVIDE STD HOOK ON DOWELS
6. DWLS TO MATCH, VERT REINF (UNO). PROVIDE STD HOOK AT TOP.
7. 20x BAR DIA. ANCHORAGE FOR BARS THAT DO NOT CONTINUE ABOVE.
8. IF 3" OF LESS, USE LAP SPLICE. OTHERWISE, USE DOWEL SPLICE AS SHOWN
9. IF SLAB/BEAM IS CONFINED ON ALL SIDES, TIES AT TOP OF COLUMN MAY BE TERMINATED 3" BELOW THE SHALLOWEST BEAM AS SHOWN. OTHERWISE TIES SHALL EXTEND THROUGH JOINT AT THE TYIPCAL TIE SPACING.

G4
S-601

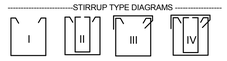
TYP CIP COLUMN DETAILS

NTS

CONCRETE BEAM SCHEDULE											
	BM DIMENSIONS		BOTTOM REINF		TOP REINF			STIRRUPS			
MARK	WIDTH	DEPTH	CONT (BC)	MIDDLE (BM)	LEFT (TL)	MIDDLE (TM)	RIGHT (TR)	TYPE	SIZE	SPACING	REMARKS
CB-01	20"	36"	(3) #9	(2) #9	(3) #9	--	(3) #9	III	#4	14" OC FULL LENGTH	
CB-02	20"	36"	(3) #9	--	(3) #9	--	(3) #9	III	#4	14" OC FULL LENGTH	
CB-02A	20"	36"	(3) #9	(2) #9	(3) #9	--	(3) #9	III	#4	14" OC FULL LENGTH	
CB-03	20"	48"	(3) #8	--	(3) #8	(3) #8	(3) #8	III	#4	4@ 14" oc E.E., R@18" oc	
CB-04	20"	36"	(3) #9	--	(3) #9	(3) #9	(3) #9	III	#4	14" OC FULL LENGTH	
CB-05	20"	48"	(3) #8	--	(3) #8	(3) #8	(3) #8	III	#4	14" OC FULL LENGTH	
CB-06	20"	20"	(3) #8	(3) #8	(3) #8	--	(3) #8	III	#4	7@ 8.5" oc E.E., R@24" oc	
CB-07	20"	28"	(3) #8	--	(3) #8	(3) #8	(3) #8	III	#4	8.5" OC FULL LENGTH	
CB-08	12"	44"	(3) #8	--	(2) #8	(2) #8	(2) #8	III	#4	12@ 9.5" oc E.E., R@ 24" oc	
CB-09	12"	44"	(3) #8	--	(3) #8	(3) #8	(3) #8	III	#4	8.5" OC FULL LENGTH	
GB-01A	24"	30"	(4) #5	--	(4) #5	(4) #7	(4) #7	III	#4	4@ 13.5" oc E.E., R@24" oc	
GB-01B	24"	30"	(4) #5	--	(4) #7	(4) #7	(4) #5	III	#4	4@ 13.5" oc E.E., R@24" oc	
GB-02	30"	30"	(4) #7	--	(4) #7	(4) #7	(4) #7	III	#4	24" oc FULL LENGTH	
GB-03	34"	36"	(4) #7	--	(4) #7	(4) #7	(4) #7	III	#4	24" oc FULL LENGTH	
GB-04	18"	34"	(3) #7	--	(3) #7	(3) #7	(3) #7	III	#4	16" OC FULL LENGTH	
GB-05A	30"	30"	(4) #8	--	(4) #8	(4) #8	(4) #8	III	#4	4@ 13.5" OC E.E, R@24" oc	
GB-05B	30"	30"	(6) #8	--	(4) #8	(4) #8	(4) #8	III	#4	13.5" OC FULL LENGTH	
GB-06	30"	30"	(4) #7	--	(4) #7	(4) #7	(4) #7	III	#4	13.5" OC FULL LENGTH	
GB-07	30"	30"	(4) #7	--	(4) #7	(4) #7	(4) #7	III	#4	16" oc FULL LENGTH	IN LIEU OF #4 SIDE BARS PER NOTE 5, PROVIDE (2) #7 SIDE BARS E.F. LTS LAP AT SPLICES



STIRRUP TYPE DIAGRAMS



NOTES:

1. PROVIDE (3) #4 BARS FOR STIRRUP SUPPORT IF NO "TM" BARS DENOTED IN SCHEDULE
2. DENOTES GREATER OF "L1" OR "L2" OR GREATER OF TWO ADJACENT BEAM SPANS
3. LTS, CLASS A TENSION SPLICE
4. SEE CONCRETE COVER REQUIREMENTS TABLE IN THIS DETAIL
5. #4 SIDE BARS - 1 EA SIDE FOR BEAMS 27" TO 36" DEEP, 2 EA SIDE FOR BEAMS OVER 36" (UNO). LAP 12" AS REQUIRED (IN MIDDLE OF SPAN)
6. QUANTITY OF TOP BARS SHALL BE THE LARGER OF THAT REQUIRED FROM ADJACENT SPANS (L1 AND L2)
7. WHERE REINF TERMINATES (AT CANTILEVER OR COL) PROVIDE STD 90 DEGREE HOOKS
8. BOTTOM BAR SPLICE BARS. MATCH SIZE AND QUANTITY OF BOTT BAR REQUIREMENTS FROM AJACENT SPANS. USE LARGEST SIZE AND QUANTITY. IN LIEU OF PROVIDING SPLICE BARS, CONTRACTOR MAY ELECT TO LAP BOTTOM BARS FROM AJACENT SPAN IN JOINT REGION.
9. FACE OF SUPPORT OR FACE OF INTERSECTING BEAM OR WALL. SPAN DIMENSION DETERMINED FROM THIS FACE.

CONCRETE COVER REQUIREMENTS (PER ACI 318)	
CLR	DESCRIPTION / CONDITION
3"	CAST AGAINST EARTH
2"	FORMED SURFACES BELOW GRADE OR EXTERIOR CONCRETE
2"	BEAM OR COLUMN PRIMARY REINFORCEMENT
1-1/2"	BEAM OR COLUMN TIES
3"	CAST AGAINST EARTH

CONCRETE COVER NOTES:
1. IF MULTIPLE COVER CONDITIONS APPLY, THE LARGEST CLR COVER REQUIREMENTS FOR A GIVEN CONDITION FROM THE TABLE ABOVE SHALL BE USED.
2. IN THE EVENT OF A DISCREPANCY BETWEEN ACI 318 COVER REQUIREMENTS AND THE TABLE ABOVE, ACI 318 SHALL GOVERN.

G7
S-601

CONCRETE BEAM SCHEDULE

NTS

REVISIONS	DATE
100 % Construction Documents	06.28.13
99 % Construction Documents	02.28.13
66 % Construction Documents	11.26.12
33 % Schematic Design Revised	11.02.12
33 % Schematic Design	08.06.12
Revisions:	

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OK CERTIFICATE OF AUTHORITY NO: 02295

APPROVED: President A.F.G.E 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director
APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director
APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff
APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service

DRAWING TITLE: COL, BM, AND PIER SCHEDULES

PROJECT NUMBER	CONTRACT NO:	Designed By	Drawn By	Checked By
623-12-101		Designer	PWS	

BUILDING NUMBER | AUTOCAD FILE NAME: | Location

Project Title: FULL FACILITY GENERATOR STANDBY SYSTEM

Date: 11.26.12

Scale:

DRAWING NO: S-601

Department of Veterans Affairs